THE

JOURNAL OF INEBRIETY

Incorporating The Archives of Physiological Therapy

OFFICIAL ORGAN OF THE AMERICAN SOCIETY FOR THE STUDY OF ALCOHOL AND OTHER NARCOTICS

T. D. CROTHERS, M. D., EDITOR

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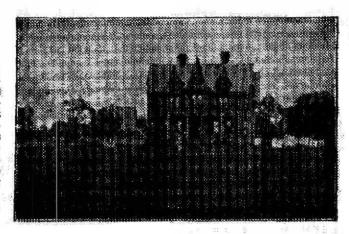
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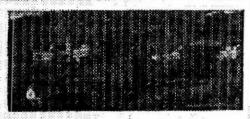
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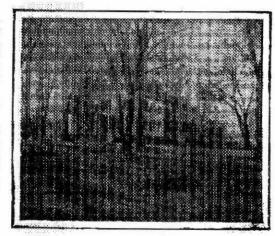
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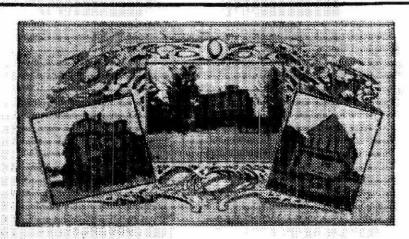


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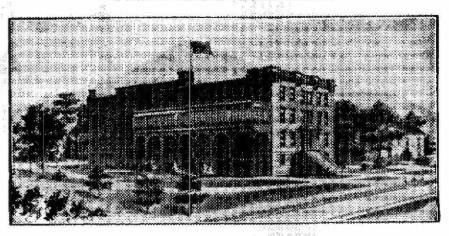
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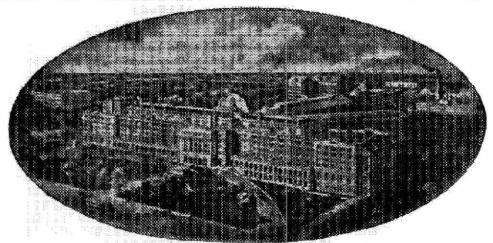
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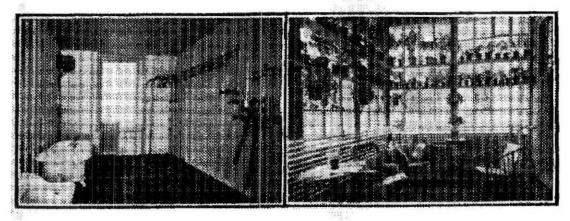
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Volume 29

SPRING, 1907

Number 1

THE INFLUENCE OF NARCOTICS UPON METABOLISM*

By Winfield S. Hall, Ph. D., M. D.,

Professor of Physiology, Northwestern University Medical School, Chicago

Before we can enter intelligently upon the discussion of the influence of narcotics upon metabolism it will be necessary for us to have a perfectly definite idea of what a narcotic is. Quoting from the Century Dictionary a narcotic is "a substance which directly induces sleep, allaying sensibility and blunting the senses and which in large quantities produces narcotism or complete insensibility." Opium is the most typical of the narcoties. According to the interpretation of Schmiedeberg. Bunge, Lauder Bunton, Kraepe-lin and many others alcohol should be classed with narcotics. It is only in comparatively recent times that alcohol has been classed among narcotics. This is due to the fact the first action of a comparatively small dose is to lead to increased activity. It is really a stage of excitement quite similar to that which a patient experiences when going under an anaesthetic. Large doses are followed by typical narcotic effects as difficulty of movements, difficulty of speech, disturbed equilibrium in

walking, followed by deep torpor, or sleep. If the dose is a large one there may be a total unconsciousness resembling a chloroform-anaesthesia. The respiration becomes stertorous and slow and the face which has been flushed becomes pale or cyanotic. While Binz and his pupils still hold that alcohol is a stimulant the number of those who accept the interpretation of Schmiedeberg and his school are rapidly increasing. According to Schmiedeberg's school the preliminary excitement which accompanies small doses of alcohol is due to the weak-ening of the higher brain functions, will and self-restraint. "Even the small quantities of alcohol tend to lessen the activity of the brain, the drug appearing to act most strongly, and, therefore, in the smallest quantities, on the most recently acquired faculties to annihilate those facult'es which have been built up through education and experience, namely, the power of self-control and the sense of responsibility." (Cushny.) Small doses are followed by increased confidence in the physical and mental

*President's Annual Address, American Society for the Study of Alcohol and other Narcotics

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powers; but experiments on individ-

small doses show that the physical at any rate to undergo complete paralysis by this drug." (Cushny.) system to be acted on by alcohol, or the last part of the central nervous ceases. "The medulla oblongata is sis some time before respiration causes a depression or reflex irritabilappear. In the spinal cord alcohol as indistinct speech and staggering long before the generally recognized an early stage in alcohol drinking. ation of the movements suffers at central nervous system evidences of work has demonstrated this concluforms of lack of co-ordination such question. For example, the co-ordinprimary depression are less open to faculties are decreased. Kraepelin's and intellectual powers are not inuals under the influence of these "In the lower parts of the In fact, the intellectual

through whip and reins. The team boulevard controlled by a driver, a driver and his team. Let us imagine system could be cited in the case of fluence of alcohol upon the nervous span under perfect coutrol through will check this speed and hold his speed is accelerated, but he may at them with his "stimulus" and their trol. Similarly the driver through the motor function under perfect conof these two sets of impulses bringing positive motor impulses and inhibitory controls the motor functions through centres, reason and will. The brain body, and the driver the higher brain represents the motor functions of the reins and lines maintains complete the inhibitory action of his reins. (negative) impulses, the interaction A parallel case illustrating the in-

a moment, at will, he may have accelof his whip (increased stimulation) ditions. First, either through action coordinate; the nervous excitability being a thorough mark of the lack of perfect control. As the dose of al-cohol is increased or in the case of second case of apparent stimulation may be called pseudo-stimulation. Applying this illustration to the case the second case there is increased activity through loss of control. This tiest case there was a real stimulation; the reins serving to control; while in the fallacy that in both cases the inone case he maintains control through upon the part of his team. But in reins (decreased inhibition). In in either one or the other of two conerated action on the part of the team creased action is the result of stimulacase, he may easily be be-rayed into trol. gets increased action with loss of conwhich presides over the primitive and control, but of the whole neurobut it is not difficult to detect that excitability and increased movements. inhibition. We can, therefore, note it is very evident what is taking place of the motor system of the individual his taut reins; in the other case he animal functions. is narcosis not only of the inhibition a large dose, as time advances there feet control and are likely to be in-The early effects of alcohol decrease these movements are not under per-The by-stander notes the in-

the action of alcohol it is not difficult interpretation of this action. Not only have existed for many decades a misto understand why there should In the light of this explanation of

A TROPOGRAPHICA TO THE TROPOGR

centres, or, per-

NARCOTICS AND METABOLISM

1

in order to allay this smarting or burning. While the acid can from mg and burning that would lead to of his hand he would in a few stimulant. It one were to put five between irritant action and the real must now set forth the differences system a local irritant action. We stimulant action upon the nervous cohol possesses besides the pseudoboth a narcotic and a stimulant. out saying that no substance can be many medical writers. It goes withbut it is actually classified as such by ferred to by the laity as a stimulant do we had alcohol continuously reour position when we maintain that cohol has gotten access is a manifes-tation of a local irritant and not a excitability of epithelium to which alcount classify the sulphuric acid as a toward the allaving of pain; the duced the series of movements directed reterred to as the stimulus which prothe standpoint of the physiologist be moments experience an intense smartper cent sulphuric acid on the back real stimulant. We may then feel in the pharmacological sense stimuthat may serve as stimuli that are not In other words, there are many things stimulant, but rather as a local irritant. pharmacologist would not on that achis making many rapid movements absolute confidence in the tenability of inhibitory centres. Alcohol is then, and is an evidence of lack of control stimulation, but pseudo-stimulation condition of increased action, this ininhibition it produces a transitory while through its stupelying action or while alcohol is a local irritant and lants. the may say without reservation, a creased action represents not true an evidence of a narcosis of the So the temporarily increased

THE INFLUENCE OF NARCOTICS UPON METABOLISM

cohol is a stimulant and not a narcotic morphine when given in doses large opium and its alkaloid morphine have sue activity. Experiments show that easily understood that he who ruas functions becomes an open book so a narcotic its action upon the body well known scientists that alcohol is ticular is certain to be misunderstood its influence upon the body functions enough to manifest the full physicthis effect. Experiment also shows should expect a narcotic to slow tismay read. On a priori grounds one When we accept the verdict of these in general and metabolism in parlogic action. So long as it is contended that al

periments have shown that this is the case. Whether these active tissues of 1. Influence on the Elimination of CO2. If body activity is decreased opium, alcohol or any other narcotic, in decreased elimination of CO2. Fxactivity would make itself manifest we should expect that this decreased to produce the full physiologic action by doses of narcotics large enough a decreased elimination of CO2. the body are under the influence of of alcohol is the narcotic action upon case of the opiate this fall of temalcohol sufficient to produce the full decreased consumption of oxygen and their activity is decreased; there is at work. First, the most direct effect of alcohol, however, two things are decreased metabolism. In the case perature can be ascribed solely to fall of body temperature. In the physiologic action are followed by peratures. II. The Influence on Body Tem-Doses of opiates or of

NARCOTICS AND METABOLISM

warmth results in a rapid radiation surface features and glow of surface remain exposed to the cold for a number of hours. This flush of the house on a cold day, but also most misleading and dangerous if he is to ous branches. In this dilatation of of arteries, particularly of the cutane experiences a glow of warmth most cutaneous blood vessels, the individual pleasing when he emerges from a

of highest heat producing and energy represents the most easily assimilable and readily metabolized foodwhich represents next to tats the food So we find a man taking sugar, which something to disburse body heat, but producing co-efficient for its weight. the exact reverse of this drug action thing to slow tissue action and heat producing tissues is not some-

ler needs when he is to be subjected to such an ordeal of his energy and

periences of former travellers that such indulgence in alcohol would probably be fatal. What the travel-

not be induced to partake of even small doses of alcohol or small potions of alcoholic drinks. They

know very well from the recorded ex-

and travellers in higher latitudes can-

mountain climbers in higher altitudes

This accounts fully for the fact that

the surfaces, it is being more slowly liberated in the muscles and glands, heat is being rapidly radiated from of temperature is accentuated by the fact that at the same time that the to a fall of temperature. This fall of body heat. This leads naturally

co-ordination of muscular activity we III. Influence on Muscle Action. If alcohol in any dose increased the strength and agility or the graceful

> the againty. confused co-ordination and decreases loss of strength and leads to fatigue, hand, the small dose causes a definite small doses of alcohol. On the other quantities of that drug, either as a beverage or a medicine. But this at-titude of the trainer and coach is the more strength, made more agile or more gracefully co-ordinated even by show that muscles are never given perimental researches; and that these experience is in harmony with the exhowever, have demonstrated that this result of experience and empiricism team if found indulging even in small they must risk expulsion from the prohibit these drugs. So strong are the rules imposed upon the men who are entering athletic contests, that for these purposes, but actually to alcohol, opiates or any other narcotic well as coaches and trainers in general ever, of this coach and trainer as for a contest. The experience, howthe prize lighter whom he is training or the trainer to prescribe alcohol to the strength and energies of his team would prescribe alcohol to increase example, that the tootball coach ity is desired. We would expect, for such a manifestation of muscle activhas led them not only not to prescribe experiments in many laboratories

and causing increased action without inhibition, thus loosening the reins effects cause a narcosis of the cerebral cohol or large doses in their primary ences excepting its alleged food value. This is due to the fact set forth at length above: that small doses of alin any other field of alcoholic influ-IF. Influence on Brain Action. There is more confusion and disagreement regarding the influence of al-

> and others demonstrate conclusively of the day is completed. Experiments such as those worked out by Kraepelin the moderate use of alcohol, advise against its use until the brain work in quality. Even men who believe in in quantity, but very much decreased such a period would not be only less amount of work that he could do in fluence. On the other hand, the of alcohol can do more work in six latent period. Just how alcohol exert-itself upon the nervous system has ing their acuteness and increasing the effect upon the special senses, decreas that alcohol is a narcotic and has an hours than he could without such inbecause no man under the influence of nerve cells become either more rapidly exhausted or less rapidly dewhich represent the potential energy of this drug the chromophilic bodies who showed that under the influence posited, leading to a depletion of the been worked out in detail by Riley* nerve cells. pseudo-stimulation. That it is not real stimulation must be evident

sues is sorely interfered with by al-cohol. What is true of alcohol is in we find that metabolism in nerve tis continue their normal activity. Thus their presence the nerve cells cannot resent the nerve energy and without But these chromophilic bodies rep-

a general way true of other narcotics.
Influence on Glands, Especially or perhaps also of gastric juice, the final effect upon the glands is strictly a narcotic one. A recent valuable contribution to this subject was made by Dr. Salant of New York.* The first question to which Dr. Salant ary increase in the secretion of saliva effect of alcohol may cause a temporthe Liver. While the local irritating gives attention is: "Does alcohol

> rapid transformation of glycogen has taken place." Dr. Salant's second question was: "If alcohol fails to spare the glycogen, does it behave like action only after the stage of intoxication has been passed."
>
> Dr. Salant's closing paragraph is may hasten the process by which glymarked diminution in the glycogen of the livers of the alcoholic rabbits, as compared with the controls." "The of the problem are thus summed up.
> "The analytic results given in the extended experiments on this phase ance of glycogen from the liver." His titles of alcohol suggest that a more result of his experiments he show spare the glycogen of the liver, and thus retard its disappearance." As a cogen is made to disappear from the conclusion seems to be justified, theretable show, with one exception, a the two experiments with large quanspare the glycogen of the liver, while given in the amounts stated, does not that thirty per cent, alcohol, when account of its high calorific value, fore, that large quantities of alcohol various other toxic substances in this liver and that it apparently exerts this the conclusion is, therefore, justified

so important that its complete quota-tion is more than justified.

diet improved their ability to combat bacterial invasion. Although his alcohol in infectious diseases. Collaglucose for lifteen days to their daily that increasing the glycogen of the made the very interesting observation who studied the influence of glycogen liver and muscles in rabbits by adding on resistance in intectious diseases "The present study suggests certain which leaves the matter were later disputed

^{*}Journal of Inchriety, October 1900

body of a very effective weapon to combat infection." (William Salant, M. D., "Further Observations on the content of the body the administraance, for it resistance to infection is open question for the present, never-theless the possibility that such may be the case is of considerable importincreased by increasing the glycogen the liver, thus probably robbing the cians is not an unmixed blessing, infectious diseases practiced by clinance, as is shown by my experiments, tends to diminish the glycogen of

> M. A. Vol. XLVII., No. 18.) Influence of Alcohol on the Metabo lism of Hepatic Glycogen, Jour. A

myasion. understood just how alcohol accomp-lishes this untoward effect. It is more than likely that the work of Dr. Salant gives us the clew to the to disease has been known for some resistance of the body to bacterial time. It has not, however, been way in which alcohol breaks down the decreases the resistance of the body That inhibition of alcohol actually

MENTAL DEGENERATION THE RESULT OF ALCOHOL

By Robert Jones, M. D.

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On January 1, 1905, there were

males and 64,660 females, being a proportion of one insane person to every 285 of the population. Of this tion are vouchsafed, the information difficulty, as no definite facts of causadisease this becomes a task of extreme and Wales, of whom \$5,169 were It is no easy matter to determine persons (50,180 also be the agent immediately responsible for the fully developed disease. frailty of the brain tissue which renders the individual more prone to one of the causes of the impaired several antecedents may take a share in the ultimate production of insanity would have less influence. Although or conditions which in the healthy is often some inherited or acquired be affected by noxious circumstances Underlying the causes ascertained

males and 59,097 temales) were of

the poorer classes.

number 109,277

ings shows but little variation from years that the number of cases appearsanity are taken over a period statistics as to the causation of year to year. ing as caused under the different headinteresting to note when 01 . E.

It is computed with some certainty that alcoholic intemperance may be

given the greatest prominence

actors of causation

more immediate relation to it being

to bear some relation to the attack of insanity, and those which stand in

usually obtained being some antece-

disease, but in respect to menta with exactness the cause of any

dents in the history of the patient which are considered by his friends

cent, for females, and for pauper male admissions into asylums and in attributed as an assigned cause of 9.4 per cent, of the females; the proinsanity in 22.7 per cent, of all the mung the poorer classes. 16.7 per cent, for males, and 8.6 per portion for private patients, being patients 23.6 per cent, for males, and he lesser resistance to temptation 1.6 per cent. for females, showing

admitted with a history of intemper-ance; that counties with a high rate of insanity have a low proportion of cases from alcoholic intemperance which intemperance and crime also and that areas in which the associainteresting to note as pointed out in as a Blue Book-acknowledge that exists correspond with those areas in this report that certain counties with missioners in their last report, dated ble to arrive at precise conclusions intemperance is often an effect, as tion of intemperance and insanity show a high proportion of cases 1-05, to the Lord Chancellor-issued is to causation, but the Lunaev Comor disease, and the intermingling of hese antecedents renders it impossicomparatively low rate of insanity It is fair to state, h wever, that as a cause, of brain weakness

want, anxiety, and other moral and insanity. This apparent dissociato the geographical incidence of al-coholism, and pointed out that the industrial people in coast counties. the lowest ratios of pauperism and insanity; whilst inland agricultural people were the least mebriate, but tion between alcoholism and insanity were the most intemperate, but hac Dr Bevan Lewis recently referred

ALCOHOL AND MENTAL DEGENERATION actors are essentially related to both

sion of medical advice in regard to to them can be arrived at the human organism is primarily one before accurate conclusions in regard brinking are so many and so infinite! he question of the use of alcohol is been initiated through misapprehencompetantee has in numerous instantees for the medical profession, tuen of the effects of alcohol nsames and drink. arred that great caution is required he use of sumulants; and secondly, sociological one. The causes of I am convinced that the great quesnoqu

public in regard to the evils which and in severe condemnation of those any shape and form being a poison and that many facts are distorted by and excitement, and about alcohol in vitality, about the craving for luxures mirigated. must follow and how these may be ability to prevent the spread of excondeavouring to the best of their to indulge in hasty generalizations tanatical enthusiasts who are too apt We hear a great deal about lowered

evil effects of intemperance, and a within recent years, done more than member, has, I venture to think elementary schools. the physiological effects of alcohol to be taught to children in our public and more correct information about any other to hy attention upon the 15,000 medical men, asking for fuller presented a little over a year ago to the Board of Education, signed by proof of this statement is the petition The profession of which I am

being studied by sober-minded indi-viduals than this question of drink, interest that is in greater need of There is no question of public

ALCOHOL AND MENTAL DEGENERATION

tion are thrown out of sympathy with their condition in the social organizatempting, as they suppose, to better yous system which may eventually exthe masses it should not be forgotten of this general and mental instability. draking being the phase subject to excessive network strainization, many individuals whilst atsystem, and under the stress of the of a functionally unstable nervous great importance and it has not recomparative affluence—is a factor of psychoses-diseases of the nervous out of the sphere into which he was attempt is now being made to educate and in a country in which every conditions created by modern civilcrived the consideration it needs life, or from comparative straits to the removal from a country to a city in the environment—for example, met with in tanalics in which there system and affections of the mind are pose him to serious temptations. The born may impose a tax upon his nerthat the elevation of the individua has been a sudden and rapid change trequency with which neuroses and Addiction to alcohol is an indication surroundings and presented become

that conduct depends, and there is no Now it is a fundamental law in crolution and dissolution that the last, ment is made that the greater part than of evaggeration when the statethese alcohol exerts a degrading and degenerating influence. It is upon the highest mental faculties, upon can are the attention, intellectual eller's, ideals, ambitions and desires iscrimination, and judgment. Upon chefred function is the first to go in complicated and highest de-The highest faculties of

> from excessive alcoholic indulgence. sion as well as of commission-result

own country 50 per cent, of crime is attributed to the abuse of alcohol. a corresponding diminution having occurred during those years in which and in the districts surrounding St. crimes, in Norway to 44.4 per cent., also risen to +; per cent, where big alcohol have in Germany reached the figure of 41.7 per cent, of the total of the three C's "Ceremony, Courtesy, Petersburg to 47 per cent. has reached to 35 per cent, of total Hungary delinquency tarough alcohol the vine crops were very bad. consumption of alcohol has increased, cise a genetic power. Crimes due to innere eriminality does alcohol exerethic degeneration eventually results ceteriorages until the most complete which through its effects gradually ment by the three P's "Persiflage, and Convention," and their replace-Not only in delinquency but also in arradox, and Pruriency" demenstrate he effects of alcohol upon conduct Indeed the gradual non-observance In our

whole study of man, it enters into the with reference to the prevention of crime. Punishment comprehends the braced the problems of penal policy, especially the deprivation of liberty braced the problems of penal nized effect of drink on crime subjects treated by the Congress emnumber of adherents was 335. oungress 28 States were represented in September of last year. At this sidered at the Congress at Buda-Pesth tors and vas subsequently Penitentiary Congress at Brussels in and it was asked at the International closely related to our present subject The question, "What is the recog-82 official delegates and

> 44 per cent, were habitual drunkards cases of grave crime estimated that either the direct or indirect consecentage of offences committed were Legrain, of Paris, that a high persing drink, were all considered by the as a result of alcohol. cases from the Central Prison of The further examination of 5,000 at the moment of crime. Of those Belgium, in a careful analysis of quence of drink. religious training, means for repres-France showed 66 per cent, of crime sentenced to capital punishment over and of these 11 per cent, were drunk Preventive measures, education It was shown by Dr. Dr. Masom, of

tion of these reaching the high per-centage of 83 of total crimes. It a further precautionary measure and the various prisons. It is even ag-gested that these pictures should be ly connected with drink, the proporstration of statistics respecting Zurich owing to the overwhelming demon-France, Belgium, and America. Such exhibitions occur in prisons in force conviction upon the minds of of terrifying description so as to placed in the corridors and rooms of lectures and pictures. As a result, pictorial emblems vividly representing the harm of drink have been organs should be illustrated by effects of alcohol upon the bodily recommended that the deleterious deliberation the Brussels Congress ing to be an important contributory ness or absence of some trade or callards. The Congress considered idlepolice court recidivists had a proporwas also pointed out that the usua tactor to crime, and as a result of Crimes of violence were particular most callous and indifferent

> most decidedly in favor of "Anti-al-coholic instruction" in prison, by to idleness. In consequence the Conweek; these being the result of wages tion (33 to 4) of offences resulting Berlin, and Vienna the great propor gress at Buda-Pesth last September spent on alcohol and owing primarily pared with the other days of the urday, Sunday, and Monday as comfrom drink were perpetrated on Satfavor of special restraints being voted, among other measures, in Saturday to Monday, and they were placed upon the sale of drink from ectures, pictures, and diagrams.

and asylums is not of a high grade Inebriates Act, of whom 70 of the cases, who through drink become amount of persession can keep then with decent human beings. No as morally as well as intellectually ary certified reformatories. transferred to State control as too former and 36 of the latter were of March, 1904, 937 women and described as vicious. Up to the end asylums, 70 per cent, are on the ruined by their self-indugence. them (where of good social status) the companions of low persons and criminals—even if their families are from drink. They must have it even with decent human beings. mental condition of these is described refractory and violent for the ordininsanity, whereas 20 per cent. are borderland the State reformatories 10 per cent. and of those who are received into The mental development of these subsequently certified into pauperizes them and makes between sanity and

habits are formed and fixed, they are be approached young, before these Nevertheless, if these people can

not such hopeless material. We ourselves are convinced of the value of educating the young, of instilling into their mind and of burning deep into their consciences the associations of idleness, disease, drink, and crime, and we shall refer to this aspect later. As to idleness, Ruskin states, "It is only by labor that thought can be made healthy, and it is only by thought that labor can be made healthy, and it is only by

Now what are the effects of alcohol upon living protoplasm?

These have been carefully studied by competent observers, and the literature of the subject is full and extensive. Alcohol stops the germination of spores and grain, and it is even fatal to its own production, for when the proportion of alcohol exceeds 20 per cent, in the material undergoing fermentation, further action of the ferment is arrested. The effect of alcohol upon protoplasm is to paralyze irritability, diminish sensibility, and impair contractility.

We have the record of innumerable experiments and irrefutable evidence of the evil influence of alcohol upon the metabolic, and motile, and the reproductive functions in all animal

Physiology teaches us that alcohol is a strong de-hydrating agent. It takes away water from living matter and as a fixed amount of water is a necessity for the life of healthy protoplasm this de-hydrating action of alcohol must prove to be highly injurious to life. Alcohol passes with difficulty through the living membrane of the small capillary blood-ressels into the tissues, it acts upon the delicate cells as an irritant and causes the capillary walls to this can, the thickned wall encroaches upon the minute tube-cavity of the

blood-vessels, and as a result the special organs of the body are deprived of their necessary nutriment.

This condition of the blood-vessels, furthermore, retards the exerction of waste material from the tissues which in consequence accumulates, and interferes with healthy and normal functions; and it is this accumulation of effete material, which should be eliminated, that has given rise to the view that the injury from alcohol is not only a direct poisoning but also an indirect one; from the production and accumulation of waste products which cannot in this way be gotten rid of.

retention. The continued use of alcohol brings about, even in what is called moderate drinking, marked changes in the nervous, muscular, and tron. increased blood-pressure with de-creased heat production. This is of structure implies change of funccohol is a structural one, and change ulated from the first as well as heat ently, for heat formation was stimstated by Bevan Lewis to act differcreased heat production. glandular tissues. The action of alheat production as well as great heat discharge. Collee and tea are blood-pressure together with increased doses followed by a stage of decreased Lewis states that alcohol in small doses causes an initial stage of Physiological Effects.—Bevan

In large doses it has been proved to cause changes in the pyramidal cells of the brain. It destroys the fine tissues of these cells, which swell up from degenerative changes, their outline being altered and the nucleus displaced or extruded. Fatty changes are produced in the voluntary and involuntary muscle fibres, in the various gland cells which in consequence after the metabolism of the organism.

An increase takes place in the baser tissues, and the fibrous or cicatrical elements multiply both in the blood-vessels and in the various secreting glands so that malnutrition is induced which reduces vigor and diminishes vitality, resulting in a lowered resistance to disease. As to the increase of fat in the body, that statement is not maintained that alcohol itself is consumed to supply the energy which is naturally obtained from tissue changes.

Alcohol exercises no "protective oxidation" over the body; on the contrary, it interferes with the building-up process by forming a compound with the haemoglobin of the red blood corpuscles, which takes up and parts with oxygen less readily than does normal haemoglobin.

The accumulation of fat noticed in beer drinkers is due to a general diminution in the metabolism of the body, and to an accumulation of waste matter which should be excreted. This accumulation of fat is in part an active degeneration as well as an infiltration, and it can be proved to be at the expense of the higher protoplasm, as it can be measured by the increased elimination of nitrogen. Fatty infiltration and fatty degeneration are characteristic features of acute alcoholic poisoning which when present explain why injuries and bodily illness which do not cause death in abstainers are prone to be so fatal in alcoholic subjects.

Mental Effects.—The mental effects of alcohol differ as to whether they are induced by a small dose, or by one large dose —as occurs in acute drunkenness or acute alcoholic poisoning—or as they are the result of long-continued chronic drinking, even when this is done in what is described as "moderation." The effect of

vanish, everything seems more full of attraction and all the world seems better! There is a sense of bion-etre, his visage is seen to be illumined and his eye is kindled. But this picture soon falls into shadow, for the ideas more expansive and confiding, cares more loquacious: language becomes with unaccustomed facility, the tongue next highest to rise up psychic faculties which permits the sion or an inhibition of the highest ing to genius, it is merely a suspenreferred to has no relation or bearintellectual exaltation and excitement conversation. The initial flush of the stupid and silly nonsense of the est focusing power of the mind is into the cerebral cortex, and the highvarious sensations pour their messages soon become dissociated and words become a vertiginous whirl. The the person is made happier, he is less diffident and more self-assured, is loosened and the person becomes intoxication, is that the ideas flow often manifested in commencing ordinary convivial drinking, often prominence. usion results which is evidenced in nakes its separate impression and conanable to concentrate them: each lescribed as that of moderation, and

Alcohol sets free the shackles of restraint characteristic of the higher man, removes the veil from the less highly evolved mental plane so that free play is given to the uncontrolled feelings of the lower man. Alcohol attacks '.rst the hierarchy of the nervous functions, viz., those which are in the front rank, and these are affected in the inverse order of the development, those last formed being, as already stated the first to surrender. There is a loss of prevision and judgment and there is a failure in the power of focusing or

a hostile attitude of mind and to react and toleration was established. A proper names first, so that language becomes poor, primitive, and lacks quent symptoms of mental disturbance caused by chronic includgence in alcohol is a loss of memory; the the result of chronic drinking. There impulsiveness is also very marked as change in the disposition from what customed to the action of the poison the fact that when visual illusions are present, or delusions based upon nature they supply a reasonable sugepilepsy than any other disease. The threatening, indeed the uncontrollable intolerantly and furiously, the person is a tendency to the development of it was before to querulousness and in persons who have taken to alcohol precision, and such is most marked nouns go before the adjectives and alcohol may be directly or indirectly experience can go further and record gestion for an alcoholic origin. One's of a terrifying, fearful or persecutory not too much to say that where hallufury and violence in some cases after late in life before they became acthe cause. One of the most freful, vainglorious and grandiose, then them, or when the delusions are boastcases of insanity, and when these are cinations or delusions are present in who drink to excess. Indeed it is such being extremely common in those mainly those of a persecutory nature sions upon which are based delusions tendency to the development of illubecomes affected and there is a ing hist. After a time the memory highest and most important disappearthe order of their importance, the concentrating the powers of the mind The mind loses these characters in aggressive, violent,

benevolent emotions sufter especially, and altruism gives way to the most selfish egoism: prudence and moderation disappear and the mind eventually becomes a listless and disorderly chaos, without purpose and without method.

Sensory Effects.—What are the sensory effects of alcohol? Alcohol blurs and dulls the sensibility, giving rise to loss of feeling in the extremities and when common sensation is affected nervous cramp often occurs. In consequence of these, mistaken ideas are aroused and complaints made as to electricity, machines, or the gnawing effects of animals. It is these sensory disturbances which often originate delusions of persecution and violent retaliation on the part of both sexes.

Women are more prone to these disturbances and to anomalies of sensation than men, and the grocer's license is probably responsible for more women being in asylums than ever the publican's license, as drinking in the one case is done openly and to some extent is controlled by public opinion, whilst in the other it is accompanied by deception, stealth, and lying.

Motor Effects.—Alcohol has a peculiar affinity for that part of the brain which is connected with the "muscular sense"—a sense which interprets the equilibrium of the upright position and that of the limbs. Even before the ordinary sensation is affected the "muscular sense" is often attacked. At present not very much is known of the muscular element of thought but the sense of distances is impaired, and alcohol is destructive to this, even in continued small doses.

Mechanics, such as engineers.

even clerks and those who are dependent for their living upon a highly cultured and educated muscular sense are brought into asylums, and it is among the skilled craftsmen, the best workers, that alcohol plays its worst havoc: and consequent distress is not limited to themselves for it involves those dependent upon them, who are frequently pauperized through their meapacity. It is inevitable that those who drink should suffer from tremors, and these occur in the muscles most used being evident even to the layman in the trembling lips, hands, and voice of those who indulge in alcohol.

General Susceptibility to Alcohol

neys. The heart also and the great blood-vessels may be affected, death system, although other organs suffer prone to its ravages, and the brain worker rather than the manual labfrom head injuries are especially whereas others tolerate it in larger tests the strength of the chain in its tendency in the individual, and it is well known that there is for each per-The determination of the organ at-tacked depends much upon the family resulting from apoplexy, cerebra the system, e. g., the liver and kid as well, for it frequently causes death through disease of the great glands of has a special affinity for the nervous alcohol. As already stated, alcohol mines the seat of least resistance to upon a particular organ often deterorer suffers the most, in fact, the stress one man's meat is another man's poison." Drink in small doses is son a locus resistentiae minoris which softening, or general arteriosclerosis. literally death to some persons, -It is a true maxim that "what is This is well exemplified

in our own experience when we find one person becoming garrulous and silly under the influence of alcohol, sense noisy whereas in a third the muscular best system becomes mostly affected as is evidenced by the utter inability to stand or move, although the same olves has been partaken of by each, their further, through the unbridling of the same further, through the unbridling of

Further, through the unbridling of the inhibition, alcohol impels to other forms of indulgence, and many are the cases of rapidly progressive and fatal insanity, termed "general paralysis," which are admitted into asylums, primarily the result of a deficient self-restraint and of a sudder and passionate yielding to temptation. Children and young people are more susceptible than the old, upon whom alcohol in small doses has the leave deleterious and the greatest therapeutic effects.

This susceptibility of persons to the effects of alcohol is the "personal equation" of the individual as it has been called, and it is a dominant factor in the incidence to or immunity from other diseases also. One word may be said here about the vexed question of heredity, and whatever view is accepted as to the transmissibility of acquired character, all must be agreed that the delicate material of growth is unavoidably affected by intemperance. The children of drunken parents are themselves feeble apart from the neglect of offspring involved.

The tendency to convulsive forms of mental diseases such as epilepsy, chorea and hysteria, when the father is a drunkard, and to the more degenerate forms characterized by idiocy, imbecility, and dementia, and the criminal type, may be looked upon as established forms.

tric estarch. All are acquainted with the wasting dropsy, and lowered vital-ity brought about by spirit drinking the different bar parlors, where ex drinkers to die from consumption and many drinkers take the infection in tract and the various serviceabl mucous membrane of the alimentary pectoration and other dirty habits are it. In this connection may also be pointed out the tendency there is in glands, whose secretions pour through which hardens and destroys the fin from the fermentation, inducing gas class cause considerable malnutrition quantities of beer drunk by the poore distillation of wood, produce very in jurious effects. We know that the tured from maize, molasses, rice, or tralian brandy," variously manufacserved with it. The cheap spirits, whether called "whiskey" or "Ausapart from the effects of the alcoho must exercise a hurtful influence quite drinkers are more often cunning, and of mixed poison represented in the different alcohols. Beer drinkers get form of alcohol produces any partic difficult to state whether any specia potatoes, or even from the destructive dull and demented, whereas spiri may be combined from the category my mind that the deleterious effects ular effect, but there is no doubt in drinkers take the infection Such poisons as absinthe

We know the evil effects of alcohol in the subjects of surgical operation, also by the deaths that take place from slight wounds in confirmed beer drinkers. The statistics of insurance societies all tell the same story of the "had lives" of drinkers as against the "good lives" of abstainers, which is an irrefutable and overwhelming testinony against alcohol. Of all the evil results of alcohol intemperance

sanity, and the statistics of the asylums of London tell a gruesome story in this connection. Since the opening of Claybury Asylum in 1893, now nearly 13 years ago, the statistics of the first 12 years ago, the statistics of the 10.688 persons (4739 males, 5949 females) who have been received into this asylum, no less than 1057 males and 742 females have been admitted through drink, as an exciting or predisposing cause of their insanity, a proportion of 17 per cent of the total, or 22 per cent, of the men and 12 per cent, of the women. During this period a total of 42.694 persons have been admitted into all the asylums of London, of whom 7182 persons, viz., 16 per cent, were definitely ascertained to be through drink.

When we consider the misery and degradation of the individuals themselves and the privation and poverty of those dependent upon them, also the economic aspect of losing the work and usefulness of 7182 persons, mostly men and women in the prime of life, and to feel that there has been the further burden of their maintenance through the rates, upon the more sober and industrious section of the community who are thus compelled to keep these persons—most of them for the rest of their natural lives—this aspect alone of the drink question may well cause us to pause and wonder what we can do to promote temperance.

Remedies.—This paper would not be complete without few remedial hints, although such was not originally intended. The picture is so sad that an effort should be made to reconstruct our social scheme in this particular. We as medical men have now abandoned the maxim of "the

many to survive." There is only a certain limited amount of force and therefore of work in the world, but we can raise the potentiality of this by improving the individual as a working unit. If we can produce a favorable environment we can improve the unit and may thus counteract some of the inherited frailies, vices of organization as they are termed, and in this way we can remove some fertile causes of drink.

In all the affairs of life, conduct counts for much and "example is al-ways better than precept." The imconscious self is greatly influenced be the opinion of others. I have there-fore great faith in "communal vigil-ance" and I believe in the enrolling of postulants in the cause of temperour cause to a creed and to encourage of purpose and effect helps to raise brotherhood, and that we are not alone in the cause. This community ance, which encourages the feeling of also assist the cause of temperance trolling factor of public opinion as to tion, such as bicycling, and the conit to the best advantage-all these are should be exercised by everyone to keep his life and person clean—the ample and by social usage, instruction as to the evil effects of alcohol, the such associations where children are perance clubs, bands of hope, and all Man is a gregarious animal and the the value of temperance in all things inestimable auxiliaries in the cause of good tood, and how to select and cook pleasure of open-air living, the im-portance of fresh air and light, of value of clean lives, the care that pressions given to the young by exfor this reason that I believe in temthe enlisting of further recruits. It is healthy outdoor exercises and recrea temperance. Increased facilities for

"bad form" and a vice, and to despise it as well as the drunkard: where a healthy public opinion is formed among themselves and where each member is pledged to self-respect and sobriety. To teach the young how to become good citizens, that life has its duties as well as its privileges and rights, is to teach temperance. I also believe in lectures such as are held by our diocesan authorities and by the various agencies united in the temperance cause. Further, I believe in the united action of all these agencies, so that pressure may be brought to bear upon the legislature to raise the health and vigor of the people and to lessen disease and mortality

who disgrace our streets and contam-inate our youth. Until this period, these persons, through a long life of enabling the police court authorities deaf when no political interests are through the action of alcohol. only adequate treatment. their innumerable penal sentences; and for them prison discipline in State authorities when detained, during crime, gave constant trouble to the police in the streets and to prison debauch, immorality, violence, and crime, gave constant trouble to the by the Secretary of State's order to State reformatories, those characters to send to certified reformatories, and 1903, emphatically come to our aid by the colonies, has, nevertheless, by the the value of "local option" in some of at stake, but ready to pass academic reformatories for long periods is the Inebriates Act of 1898, extended in The legislature, usually blind and

Whether cure ever occurs in these reformatories is another matter, but the exhibition of this form of vice in our streets is thus done away with, and we are free to direct our atten-

REFORMABLE AND IRREFORMABLE INEBRIATES

of the drink traffic and for power to diminish the facilities for obtaining it which glare with specious temptation at nearly every street corner.

REFORMABLE AND IRREFORMABLE INEBRIATES

The English inspector of inebriate asylums, Dr. Branthwaite, in a recent report, gives some very interesting facts. Our readers will observe that these statements and comments have a very vital interest to us, and apply to problems that are constantly presented. The following are some quotations from the report, referring to the judicial commitment of inebriates and their economic aspects.

a sufficient number of good cases to in finding, amongst our 800 inmates, some difficulty has been experienced Thus far in its history it would holding in the aggregate about 80 ly reserved for really improbable in-mates, but, although only capable of these laudable purposes, on the contrary, we distinctly consider that a full acceptance of these principles is the use of our accommodation for under the Act have no objection to young and susceptible associates. We restrained habituals exercise over their vent the baneful influence which unfor the sake of economy, and to preremoval solely for economic reasons. of improvable cases, persons who have who are in close touch with work the protection of law-abiding citizens, mainly used to clear the streets for seem as it the Inebriates Act has been not yet become so had as to need sire to deal with a larger proportion essential to success. But we also dewo reformatories have been special-

fill them. In short, we want persons who are reformable as well as those who are irreformable, and it is a marter for regret that many persons are not sent until long after the reformable stage has passed.

to the sample case I publish, she will considered not bad enough, not suffitory; she is therefore presumably still convicted of drunkenness (at least and committed her for a month to fore agreed that she was "not bad enough" to be sent to a reformatory, probably be committed approaches in length and character has not yet been sent to a reformathe month in question made the fourth week, three times for two weeks, and appear in court clean and tidy, and passed over her head and her record to be dealt with under the Inebriates ciently hopeless, immoral, or lunatic once), and again imprisoned, but she for that period. She has again been been imprisoned three times for one still retained enough self-respect to tration. A short time ago a woman, been cautioned twice, paid five fines, the previous 12 months. viction, five having occurred during prison. It was her seventeenth conagainst her. The magistrates therethere was no history of immorality drunk and disorderly behaviour. She peared at a police court charged with known to be a heavy drinker, ap-Let me cite one instance as illus-When a few more years have She had

> made for her reformation will be and the efforts which will then be woman disposed of to clear the streets, were eventually so treated. At the average about five years before they commencement of those live years have been sent to reformatories on an all the cases bitherto committed, blamed for their inefficiency. Nearly either under Section 1 or 2, might others, but which is past the possimust be detained for the good o leave us to deal with something that disease, squalor, and immorality, etsulting mental deterioration, organic the subsequent years of neglect, with probably capable of reformation. But for committal, and, at that time, hey were already inebriates qualified feetually removed all hope, and now heir oft-repeated sentences, their rereformatory she will be one more But when she is eventually sent to

Amongst the thousands of persons convicted of drunkenness each year, and of indictable offences of which drunkenness forms a part, there are many who are still capable of a little self-centrel, decent when sober, amenable to reason, and reformable. This is the stage when they should be committed, not five years hence. Any man or woman who is known to be an excessive drinker, and who has become so bad as to commit crime, or fall into the hands of the police four times in a year, needs some energetic measure without further delay.

Such a person will never recover of his or her own accord, nor will oft-repeated doses of prison do the slightest good; knowing this, it seems little short of refined cruelty to persist in treatment of that nature, year after year. Penal sentences for drunkenness have proved the reverse of curative, and, when an inebriate becomes

used to the week-in-and-week-out of prison, the process ceases to be deterrent. The only excuse for its continuance is custom. Surely after a century of constant trial, with no results but those that are bad, we are more than justified in calling for the adoption of some other procedure. This is not the first attempt I have made to drive home, to those who are responsible for committal, the necessity for earlier attention to these cases. I may reasonably be accused of referration, but this must be risked in iteration, but this must be risked in

I may reasonably be accused of reiteration, but this must be risked in the interests of those for whom I plead. It is sad, beyond measure to be in personal touch, daily, with literally hundreds of persons who have been sent too late, with the certainty that many of them might have been sent in time to cure.

a second term of detention. These charges to the end of 1904 (555), only 51 have been sent back to us for compared with the number of persons are small recommittal figures when more, out of the total number of disin inchriate reformatories. Furtherrecognized as being too mentally deactually known to have relapsed, but ly small when any adequate number is added to represent the almost cerwho are known to have relapsed on termination of sentence, and extremepreviously been subjected to detention year we find only nine who had who relapse, after the completion of a recommittal, in the case of persons desirability of recommittal, and early fective to have the least possible tain failure of many persons, Now as to my second point, the reformatory sentence. Of the persons committed during last

Probably the chief explanation of the small number of recommittals is to be found in the attitude of some

chance of remaining sober for long.

judicial authorities, who are apt to

expenditure, both in energy and public that reason. I think the difficulty is real, and one which undoubtedly an earlier power of recommitting persons who have been proved to be sionaries, have met my inquiries by the Inchriates Act. Many magis comes liable to be dealt with under an ex-inmate ere he or she again beeven should a case prove to be abfurther attempt at reformation can an inebriate has lost all advantage money, to be compelled to wait until It certainly seems a complete waste of habitual drunkards, and have already trates, police court officials, and mis convictions, can be recorded against waiting until four tresh offences, and of recommittal in the case of Secrecommittal, which does not affect solutely irreformable, that recommit term, after an from his previous detention before a militates against early recommittal. been committed to reformatories for have pointed out the desirability of giving this reason for inaction, and tion 2. I refer to the necessity for operates with some force against ease is however, a further reason for the tal to a reformatory is preferable to Moreover, I shall hope to show later where benefit has followed a second tion, for I already know of some cases conclude that a person who has once but which, disorder, police court, prison. reversion to the eternal cycle of street tion, with bad results, is therefore procedure under Section 1 of the act few recommittals and for delay in This is anything but a safe assumphopeless, and not worth further effort been subjected to a period of deten-I have reason to believe unsuccessful first There

Any person who is an inebriate, and who, in consequence of that state,

commits an offence which is punishable by imprisonment or penal servitude, may be sentenced (at Assizes or Quarter Sessions) to detention in an inebriate reformatory instead of being sentenced in the ordinary way to penal detertion in a prison.

This section, by rendering possible the special treatment of a morbid condition which causes crime, approves a most important principle. It recognizes that merely punishing the offender for the commission of his crime is not sufficient, that the offending person is only in a modified degree responsible for his criminal action, and that the force which impelled him to its commission is only partly, if at all, under his control. It acknowledges that the crime is the result of the condition, and that it is practically useless to punish for the crime and leave the condition tratouched.

Obviously the mere infliction of punishment for an offence, neglecting altogether the incentive, is false policy, especially when that incentive is, more or less, a constant quantity. The inevitable result of ignoring the cause is to secure a repetition of the crime. A virulent, unabated, cause leads to constant repetition of offence to oft-repeated unavailing punishment, and to the ultimate creation of a well-known type of prison recidivist.

Such a person, when the process is complete, becomes demented past all hope of reform, worse than useless from an economic point of view, and a constant burden upon public funds. Drunkenness predisposes to crime and when an offence is committed through drunkenness, that factor, as an active cause, demands more attention than it has hitherto received.

The suggested substitution of reformatory treatment for prison detention undoubtedly has a humane pur-

pose, but the utility of the exchange is really urged on scientific and economic grounds, more than on sentimental ones. Experience has made it plain that crime in inebriates means continual crime if the inebriety is left alone; siere punishment proves to be neither deterrent nor curative, and it is evident that some new procedure is absolutely necessary if any successful attempt is to be made to diminish the enormous burden which falls upon public funds from the detention of criminals, and criminal lunatics, whose ill-doing and disease are in direct association with the condition in question.

against its general use. what objection can possibly be raised advantage, it is difficult to understand the newer method ofters nothing but reformatory principle without detractto judges by this Act includes the wise have been imposed. ing from the deterrent. Seeing that the substituted power which is given than the few months of alternative and deprivation of liberty, are stil are always associated with disciplin treatment of drink-caused crime, the prison sentence which would otherof two or three years (in a reformamakes it very clear that a sentence sons who are now under detention penal and deterrent principles, which troduces this new element in the Although Section 1 of the Act in-The mental attitude of per-Therefore

The restriction of the length of a reformatory sentence to three years as a maximum, might be advanced as an argument against its applicability to the more serious forms of drink-caused crime, were it not for the fact that power is given to the court to inflict in addition, a previous

which are associated with longer decourse would increase rather than deaward of a prison sentence of from perty, are recognized accompaniments conditions. tention in a reformatory under specia prisoner the additional advantages the same time, would afford to the crease the deterrent influence, and, at dealt with quite adequately by a three main many of the milder drink-cau_ed is not sufficiently severe, there still resentence for the more serious oftences may be desired. But, granted that prison sentence to any extent which to a drunken outbreak. years reformatory sentence. 12 to 18 months) which might be crimes (commonly punished by the the deterrent effect of a reformatory he person, and a lew against pro-Many offences against

An excitable inchriate runs amok, and during his attack of frenzy, it is a matter of accident whether the head of his boon companion, or a pane of glass, suffers from his violence. Assaults, malicious wounding, wounding not amounting to felony, and wilful damage, are offences commonly met with as the result of drunkenness.

These are certain to recur when reliance is placed solely upon the deterrent influence of punishment, and so long as no attempt is made to counteract the intemperance. During 1903, 272 persons were prosecuted for felonious wounding, and 945 for wounding not amounting to felony; 856 of the total number being committed for trial at Assizes or Quarter Sessions. It is certain that a very large proportion of these were led into crime through drink, and yet only one was sent to an inebriate reformatory.

Neglect of children, attempted suicide, and larceny, are also very often drink-caused, and are crimes

REFORMABLE AND IRREFORMABLE INEBRIATES

which render oftending persons liable to the application of Section 1 of the Inebriates Act.

It would be extremely interesting, if it were possible, to trace the final result in regard to the large numbe of drink-caused attempted suicides discharged or handed over to the care of friends.

ing moments of future irresponsibility. a fear of its possible occurrence durat the idea, and there is very often inclination during intervals of sobrivictims had previously shown a ten-dency to suicide when under the in-fluence of drink, or had actually atmanner. A slight study of the reports of inquests upon drink suicides will of them have ended their days in this such a tendency, and a large number us definitely that any habitual drunkmost always a feeling of abhorrence ety, or even during enforced abstindrink. I have seldom found any such except when under the influence of in habitual drunkards is rarely present tempted it I fore the final successful clearly demonstrate that many of the make a successful attempt on his life. are tavorable, and sooner or later will period of remorse which follows an during heavy drinking, or during the ard who shows a tendency to suicide outbrenk, will suffer a recurrence of have known many mebriates with "t tandency whenever circumstances Jur experience, however, teaches But, the tendency to suicide On the contrary, there is al-

Amongst something like 8000 inlebriates, who have been detained in licensed retreats and certified reformatories, up to the present time, only five have attempted suicide during their period of detention.

One of the five was suffering from meiancholia and was on the point of

being sent for asylum care, a second was actually in (unrecognized) delirium tremens, a third was found, postmortem, to be suffering from organic brain disease, a fourth took poison in a fit of remorse and disgust following an attack of drunkenness, and only one case was not accounted for (so far as I know) by brain trouble or by the immediate effects of drink.

already proved themselves incapable of keeping the offender from drink worthless one. Such a course seems too at protection, indeed it is practically a ing habits. Consequently, in attempted suicide, we again encounter an ofhis excess, that there is little more fear of suicide than amongst any similar and when such a person is kept foractually under the influence of liquor, It is almost impossible to keep an tempts at suicide by persons in better from the working classes; few atat police courts are mostly drawn Besides which, the cases so charged charged with the offense in question. of protection upon persons who have much like shifting the responsibility The hinding of such a person to the care of friends is too feeble an effort to drunkenness if we desire to prenumber of persons of moderate drinkcibly from drink, or is weaned from invariably occurs when the inebriate is suicide in habitual drunkards almost otherwise he would hardly have been directed towards preventing reversion charged at court, our efforts must be cause. shape of more definite attention to its demands rational treatment in the ly to drunkenness, an offence which position become known to the police. vent a repetition of attempt at suicide. rence which, in inchriates, is due sole-From this we may safely infer that In dealing with any person an ordinary

middle-class private house with the advantage of spare hands to assist in the responsibility; how much more mic impossible therefore will it be in a more workman's dwelling with few hands ing to help, and those probably away the mly greater part of each working day.

Penal treatment cannot be considered a suitable alternative, for detention

Penal treatment cannot be considered a suitable alternative, for detention in prison only increases degradation and results in a further loss of self-respect; it does not in any way modify the virulence of the cause, therefore it is not preventive, and the sentences are too short to be in any sense curative. The only logical course, whenever it can be followed, is committal to reformatory care, and this, I think, should be the one commonly taken.

Most inebriates charged with at tempted suicide are otherwise lawabiding citizens; they have not been hardened and degraded by long years of drunkenness, police court, and prison, like those persons who are sent to reformatories under Section 2 of the Act.

The very attempt at suicide is often evidence of some remaining self-respect and due to a realization of the apparent hopelessness of the future. Such persons have desired to do better, but have felt themselves unable any longer to fight a losing battle. Because of this relic of self-respect and desire to do better they are hopeful cases to deal with, and have a fair chance of recovery if properly taken in hand. In visiting reformatories I find the "attempted suicide" and "cruelty to children" cases are easy to distinguish without actual knowledge of their history; they form a class by themselves, inviting treatment under the best conditions.

In these circumstances it is regretable that so many cases are inade-

quately dealt with, when, by committal to suitable care, they might be afforded a real opportunity for reformation. So long as it remains impossible for the police court magistrate to send attempted suicides direct to inebriate reformatories, it seems reasonable to hope that he will more often consider the desirability of remaind for trial at sessions on an indictment which includes the two necessary counts—attempted suicide and habitual drunk-enness. I am convinced that such course, if freely taken, would materially reduce the yearly number of suicides. Present procedure is doing practically nothing towards that end

At the time of writing there are nearly 900 inmates under detention; roughly, 800 in certified incbriate reformatories, and the remainder in State reformatories. The latter have been removed thereto on account of refractory or violent behaviour. Amongst this collection of persons we meet many curious and interesting types, and much material is available for scientific study and clinical research. In my last report (see extract, page 95) I made a rough classification of inmates based upon their mental characteristics, which is fully supported by subsequent experience.

year's experience tends to confirm the adoption of better preventive and and indicate from this standpoint, the asylums. I then wrote of the finished curative methods. necessity which exists for the to pay more attention to the and treatment. This year I propose article as handed to us for detention vanced mental disease found similarity which exists, in general confluences which tend to the making, duct, to ordinary cases of more adtinctly defective I pointed out the In regard to those who were dis-Every succeeding general

rendered possible by law, instead of being impresented antil every vestige of mental stabile has disappeared. tives should not be subjected to the constant influence of old includate de fectives, unless we wish to make their amongst our immates to-day are the opinson that the mental defectives with harshness instead of pity, and dosed with prison as remedy. The ultimate result, as we find it is the might have been made decent mein backward, feeble-minded, and neurotic gives exalence of his condition, by the their detect. When a young defective self-support, because evident by my for saliganized and incapacity for youth, and when immorality, unapac-BEES of the compliantly. children of yester lay, many of whom we have much to does ective children slightly delective at the start dott enect of a bad start, bad environ-KNIII expable of approvement, and conduct, they were treated treatment of adult oftenders much to do. Young defecdirectly belong to our but with the environment directly belong to our I he management of The management of deword neglected during I be placed under resolution innipitory confirm or mercass in hand, were dustead of

The History ' R greatermatte II a-

fire 13 at the present time. Her father was a addicted or less, and a man of very The worder and born in a northern beorer, who was much specially when unde

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> together, and by the father after the latter were very young. Most of the drink taken by the parents when 111111 into domestic service at a public-house, quarteling from their intancy. history of one of the children having for neighbors, who gathered together house, which became a regular resort was left alone, was brought into the husband with his five children who prosecuted her, with the result Stole When at home, at the age of 17, she her tather's house, and then leaving her situation she returned to interested, when quite a girl, individual in whom we are at been bearen when very young for carned her living by prostitution. nothing but drankenness r her discharge from this senione? became an habitual drunkard she was sentenced to two months somment on April 10th, 1886 SORRE sense of the term, and it is certain that they she remained some time. After drink from money and clothing young for re-r a neighbor's that they all present when lost of come W CHE

Outplates a life story replet with draw constants, immorality and crane. See Fig. in 1880 as a girl of 17, she has an and our of prison of representative matter the presentative matter. an the is still in prison completing arrance of three months imposed Verl. 1905); when, as a woman of

During the 25 years period over which our record extends she has been believe the police courts 219 times. Limitary last,

Therefore, of the last-2; years of existence, she has spent, in th

> conduct under detention was, at times, exceedingly had. She had a fixed deof imprisonment. In general appear-ince she was of stunted growth, and ("quizzing her"), and she took vio-Hor of imperiest physical development 17101 pered, taking onence on the slightest her detertion. She was quick temsociation impossible: she was, in fact, ent cause. lent likes and dislikes without apparlusion that other persons were always word "animal" fitly describes. Her power, she had a very low forchead plainly the stamp of defective menta sufficient to say that she had already to trouble and rendered work previous history we know, and it is lace was of low type, bearing tor reformatory treatment. Her charged 212 times out of the her condition was when she ar or more often on an imaginary suffered more than 180 terms above mentioned and had al-This constantly gave rise in as-

would like all control over violent, shake with passon, he very violent, and act generally like a little tigress; quite careless whether she injured herself or others. It she hurt herself she did not seem aware of the fact she did not seem aware of the fact until she came round, which usually occurred in about half an hour. These furious outbursts were generally folextreme, and during he One or two accidental glances from another inmate were, at all times, sufcause, due to her delusion. lowed by penitence beion to start her off. During her period of reformatory deto start her on. Her temper, it lasted was passionate in the ue, and during her outbursts she the woman gained in physical

to accomplish what she had no power to undertake—the proper care of herself, or to fight for an honest livin, on equal terms with her normal fel-lows. Who can wonder then at the was still detective mentally, quite unlittle. When she obtained her dis charge from expiry of sentence, she sequel, or be surprised that she failed fit for freedom, unfit to control her-

for wilful damage, and once for an assault on police, during the 24 months which have elapsed since she left the reformatory, and she has spent and disorderly conduct, three times ted to prison eight times for drunk recommenced. She has been commut magistrate, and the old regime was drawn, was again brought before the She returned to her old ways im-mediately after restraint was with-18 of those months in prison.

instead of the three she might have wished, for the woman only had the ever, is not so strong as I should have irreformability in this instance, howas to what is meant by an "irreformable" case. The practical proof of This has proved a longer story than I anticipated, but I felt, and still feel, the need of a clear understanding had, and she has not been recom advantage of two years' treatment. Entted.

turned her into a reformable inmate onger period of detention would have there is little reason to hope that any ing those two years was so slight that ent purpose. Her case, therefore, will suit our pres But her mental improvement dur-

history are worthy of emphasis. A few facts about this woman

control which was inherited by her father gave evidence of lack of mental First, she came of a bad stock, her AND LICERARY

amongst our minutes to-day are the opinion that the mental defectives evaluation of imperfect inhibitory control, he should be placed under proper treatment so soon as it is rendered possible by law, instead of children of yesterday, many of whom with barshness instead of pity, and losed with prison as remedy. The things result, as we find it is the nickward, feeble-minded, and neurotic night have been made decent men of support, became evident by its outh, and when monorality, meapac wes evidence of his condition, be the shights. dives unless we wish to make then mental stability has disappeared should not be subjected to the or districtly b imprisoned until every vestige the result of adult offenders are the control of adult offenders of adult offenders of the control of the contr the community. Instead of been taken in hand, were of a bad start, bad environ-t injudicious subsequent. The management of de-lidren is a subject which When a young defective were neglected during elective at the start as clong to ou

The History of an Irreformable II oman Who Represents a Large

Class

The woman was born in a northern env in the year 1862, and is therefig. 43, at the present time. Her father was a laborer, who was much addicted to drink, and a man of very violent temper, especially when under the influence of drink. Her mother was also a drankard, who left her

Viter her discharge from this sentenceshe earned her fiving by prostitution, and became an habitual drunkard in her rather's house, and then com-menced publicly to drink to excess. When at home, at the age of 17, she stele some mency and clothing be that she was sentenced to two month longing to her father and brother who prosecuted her, with the result glass, and it is certain that they all saw nothing but drunkenness and quarreling from their infancy. The where she remained some time. After the drink taken by the parents when iusband with his five children when every sense of the term. imprisonment on April 16th, 1886 caving her situation she returned to individual in whom we are at present interested, when quite a girl, want into domestic service at a publichouse using to drink from a neighbor astory of one of the children having or drinking purposes. There is or neighbors, who gathered togethe louse, which became a regular resor ins left alone, was brought into the egether, and by the father after he latter were very young. Most of

Her history during the 25 years, completes a life story replete with drunkenness, improrality and crime. Starting in 1880 as a girl of 17, she has been in and out of prison or reformatory, until the present time (April, 1905), when as a woman of 43, she is still in prison completing a sentence of three months imposed in January last.

During the 25 years period over which our record extends she has been before the police courts 219 times.

Therefore, of the last 25 years of her existence, she has spent, in the aggregate, nearly 17 in prison and two in a reformatory. Now let us see

possible sturing the greater part of her deterring. She was quies tem-pered, taking offence on the slightest cause, due to her delusion. ent likes and distikes without apparent cause. This constantly gave rise to trouble and rendered work in association impossible; she was, in fact. power, she had a very low forehead, vacant eyes, and an expression the word "animal" fitly describes. Her conduct under detention was at times exceedingly had. She had a fixed decalling about her to her disadvantage ("quizzing her"), and she took viosufficient to say that she had already usion that other persons were always stanty the stanp of defective menta what her condition was when she are eads suffered more than 150 terms imperfect physical development impresonment. In general appear ions history we know, and it is face was of low type, hearing she was or stunted growth, and charged 212 times out of the above mentioned and had alor more often on an imaginary

One or two accidental glances from another immate were, at all times, sufficient to start her off. Her temper, whilst it lasted was passionate in the extreme, and during her outbursts she would like all control over herself shake with passion, he very violent, and act generally like a little tigress; quite careless whether she injured herself or others. If she hurt herself she did not seem aware of the fact until she came round, which usually occurred in about half an hour. These furious outbursts were generally followed by penitence and depression. During her period of reformatory detention the woman gained in physical condition, but mentally improved but

firtle. When she obtained her discharge from expiry of sentence, she was still defective mentally, quite unfit for treadom, unfit to control herself, or to light for an honest living on equal terms with ker normal fellows. Who can wonder then at the sequel, or be surprised that she failed to accomplish what she had no power to undertake—the proper care of her-

She returned to her old ways in mediately after restraint was with drawn, was again brought before the magistrate, and the old regime was recommenced. She has been committed to prison eight times for drunk and disorderly conduct, three times for wilful damage, and once for an assault on police. during the 24 months which have clapsed since she left the reformatory, and she has spent as of those months in prison.

This has proved a longer story than I anticipated, but I felt, and still feel, the need of a clear understanding us to what is meant by an "trectornable" case. The practical proof of irreformability in this instance, however, is not so strong as I should have wished, for the woman only had the advantage of two years treatment, instead of the three she might have had, and she has not been recomnitted.

But her mental improvement during those two years was so slight that there is little reason to hope that any longer period of detention would have turned her into a reformable inmate. Her case, therefore, will suit our present purpose

A few facts about this woman's history are worthy of emphasis.

history are worthy of emphasis.
First, she came of a bad stock, her father gave evidence of lack of mental control which was inherited by her. Secondly, being a woman of weak re-

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IRREFORMABLE

INEBRIATES

moval of the cause of her repeated sentences during the 20 years which and the constant repetition of prison sense of self-respect, without in the followed, completely removed all Thirdly, her first prison detention

stead of to many short periods in pri-son, prevented her (for the term of the a reformatory for a long period, inearly days, by association with other in the way that she was made in her ards for us to deal with in future tible associates, making other drunkinfluence over her young and suscepquent life; and, finally, her sentence to court proceedings, and other expenses country for detention in prison, police of her kind. sentence) from exercising a banefu is concerned, at an expense, but little and inoffensive, so far as the public reformatory sentence, or greatly im though she was not reformed by her that of the commutaty. Fifthly, al tive, one who should be detained conshe was a hopeless permanent defecshe was committed to a reformatory dition was in early life, at the time (it any) greater than she cost the proved in mental condition, she was a east kept for two years clean, sober Fourthly, whatever her mental con

not at all surprising when we call to other third but little better. This is tories since the work commenced are those who have been sent to reformabut this is not so. Quite a third of have described is an exceptional one. It may be argued that the case I the type, and, possibly,

able or otherwise) who so largely contribute to all these conditions. tive, have been rendered hopelessly tion to the "habituals" (irreformsults, the reformatory system will get of old stagers dies out, we recognize, irreclaimable by long years of irrasmall, amongst the first few thousand judicial authorities hesitate, because the percentage of good results is nearer to proving its utility; but, if the next five years irrespective of retional treatment. Until this first race mind that the majority of police court "habituals," if not originally defecdomestic misery, by systematic attenmental defect, lunacy, crime, and hold, the power to demonstrate the and it rests with them to give, or withcases, then the work is doomed to to commit treely, and recommit, for is about as bad as it can possibly be, so far as actual reformation is conand magistrates must recognize also, possibility of lessening drunkenness, out the co-operation of magistrates, If magistrates can only be persuaded cerned, that the material to work upon failure. All efforts are useless withit not originally defec-

them for longer periods, and take care others follow their bad example. Cautions from the bench are of no hrst produces no satisfactory result. munity of them for three years, a good. If we do no lasting good to of them for our own advantage, under makes them worse. We must detain value, fines are useless, and prison pense, they breed their like, and make constant danger, and a constant ex-We keep them from making tresh conditions which may also do them cases are a constant nuisance to us, a consider this matter said: the majority of the first draw from versod which may be repeated it the A member of the county council to "These

call those cases sheer profit. That's permanently, well and good, we may we do happen to cure some of them which is not the case at present them we know what they cost us cases for us to deal with in future Without any cures the debit and credit and, so long as we have charge o

however, she managed to keep out of not long. With the aid of friends again sentenced to a month's impris-onment in 1897. She was better for This sobered her for a time, and for about a year she kept fairly right with a short time after that sentence, only occasional attacks. Later she she was locked up for being drunk and people. The woman cannot say when she began to drink to excess, but she of drink," but a second brother and her mother possibly drank "more than was good for her sometimes." An uncle was "silly" during the latter part of his life, and needed "to be drifted into her old state and was tenced to one month's imprisonment. disorderly in the street, and was sendrink almost continuously. In 1895 went on; during 1894 she began to they increased in frequency as time ring about every three months, but breaks were periodical at first, occur-"thinks" it was about 1890. Her out two sisters are quite sober, respectable parents, but the woman confessed that ner. The case I have chosen for my nite history of drunkenness in the small shopkeeper. There was no defiof age, who was the daughter of a woman (C. D.), now about +1 years present purpose is that of a married with the better class in a similar man case as example, and propose to dea To illustrate the persons I call "ir-reformables" I have selected a typica

she left her home and for the rewhen a sentence of two months foldisorderly conduct. After release the hands of the police until 1899, worst had happened and "that nothand seems to have lost all control over from prison she immediately relapsed lowed an exceptionally bad charge of

in trouble, barely out of prison before mainder of that year was constantly

the same year she was sentenced to she was in again. In December of

an officer of the reformatory in April of the present year (1905). All reterest in her, and she was visited by mental instability. She was of good end of the first year no evidence of easily influenced by her surroundings, regularly by friends who take an inliquor since. She has been seen and her husband. She has not touched lowed out on license in February, came a general favorite. She was aldetention, worked willingly, and becharacter during the whole period of good or bad, there remained at the return to good health. Except being table and somewhat excitable during months had elapsed her physical conports concerning her behaviour and the condition of her home are excel-1902, when she returned to her home these symptoms disappeared with her he early months of her detention, but dition became excellent. She was irrishe was in bad health, but before six three years reformatory detention. When admitted to the reformatory

heredity, her parents were at least was a fairly strong history of neurotic though trast in many important details. the second will be found to show confeatures in the history of the first case, We have already noted the main in the case of C.

respectable, and her early associations

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TRIAL

FOR MURDER

was punished, there is no serious rewere good. She did not begin to drink till later in life, and when she did however, was a bad one, and had she been dealt with subsequently in the of the year 1899, which ended by find cord against her until the beginning rapidly to the bad. With the excepshe had the advantage of help from probability that her fate would have same way as A. B., there is every ing her in a reformatory. That year, tion of two offences, for which she person to the irreformable class. marked by drunkenness and offence would certainly have added one more interspersed with periods of liberty of short sentence prison treatment seen identical: a few more such years

Striking early and striking bard. After only one year of a regular trate who understood the advantage of charged before a supendary magisallowed fully two years to be spent under detention and permitted the after a two years' sentence withcompelled to discharge the woman sisted the final result. If we had been vision, a course which materially asspent on license under modified supergreater part of a third year being years' sentence. The longer sentence ence, was gradgingly given a two more than 20 years of similar existin a reformatory, whereas A. B., after woman was sentenced to three years police court drunken history this chances of recovery would have been out the intervening license, luckily for her, she was

neurosis; and (2), the detect which these persons apparently depends the sevenity or otherwise of inherited largely upon two mental factors (1) Stated shortly, the reformability of

> is added by long continued prison cannot alter, the best must be made ways bear an inverse ratio to the duraable, the main factor in C. B.'s recease to be an influence to be reckoned treatment. The former condition we tion of such treatment. things being equal. I am of opinion that the possibility of reform will alformability rested in her shorter conditions were to some extent favourthe latter can be removed, and should of the material which comes to hand; period of prison treatment, and, other I believe that, although other

in regard to both irretormable and regained by the general adoption of donment of persistent penal methods retormatory treatment, and the abanformable incbriates. The imancial advantages to be

hauled up, fined, and imprisoned, for years, now chronic and apparently ir-reformable, cost us anything up to away. Those cases which have been sidered as other than utterly thrown and, unless prevented, will continue from the preceding sections of this chapter. Police court inchriates, by certain inferences which are obvious more than put into concrete form spent upon them which cannot be conreason of their helpless condition, are computation, and their name is legion 20 lbs. or 30 lbs. a year, on the lowest A great deal of money is uselessly to be so for the rest of their lives constant charge upon public tands It hardly seems necessary to do

aged, or decrepit, and the burden of insane, and add to the lunacy bill in future. They become delusionally ing other drunkards for us to pay for they reproduce their like, and by their intolerable nuisance and a danger influence and example they are mak-They become diseased. Besides being expensive they are an prematurela

> their maintenance falls upon charity or the poor law. They die and are fort of resistance, the certainty of addinevitable? Satisfied to pay this money ture, satisfied to consider this outlay ists, and who control public expendi amongst us who are political economrestrained multiplication : ed expenditure as the result of unturn, accepting, with scarcery an elyear after year without hope of reburied by public money. Are those

save the community from danger and should not otherwise have. During position only needs bringing home, to vent reproduction of the species in the period of detention we should preus some return for our money, a at liberty, it will be but little more, more than the case would cost if left atory treatment; making detention as more ways than one, and we should an opportunity of recovery, and aftere and will at any rate give the inmate a course prove necessary. If the mainby sending again and again, if such nearly continuous as the law allows, with, let us stop our in-and-out-ofirreformable case requires to be dealt be fully realised. When an apparently te see money spent without adequate prison process and send it for reformcase. There are tew who are willing But this is hardly likely to be the

> sen it generally, and by enforcing and a fair trial is all we ask. worthy of fair and continued trial, seems a course which, at any rate, sobriety in these cases we diminish tence. By preventing the inebriate annoyance, for the term of each sentheir tendency to acute insanity. from committing crime we should les-

respecting woman. charge had not her retormatory year (1899) was the evident start of committing reformable persons to inturned into a wage-earning and selfthe 70 lbs. spent upon her in the re-tormatory. The average expenditure to spread over a period of five years respectability and liberty, enables us man's account, during three years of sentence cut the story short. As it is, certainly have become a permanent many to follow. The woman would good example of the value of such a stitution care, at the very start of their been incurred had the system of short 15 lbs. a year, which is not more money may be said to have been alcareer, there can be no possible doubt. And, in addition, a wastrel has been prison sentences been persisted in. than half the amount that would have for the five years is therefore about freedom from expense on this woready saved in this case. The total The reformable case I describe is a With regard to the economy of

A MORPHIAMANIAC ON TRIAL FOR MURDER

By T. D. Crothers, M. D., Hartford, Conn

Dr. J. B. Matthews of Greensboro, N. C., was indicted for the murder of his wife, and tried for the crime in that city February, 1906. On the

sicians were called and a great variety of morphine poisoning, three phywife was found in an extreme stage morning of December 1st, 1905, his

of means were used to resuscitate her,

were insane drinking and paranoics, and that early in life he was nervous, given by the prisoner, and that his attempt to make the case fatal by addand he made no explanation. In the ly injecting by a hypodermic syringe some solution into the arm of his confused manner, he wished the ed that the convulsions preceding her of his sanity. The prosecution insisting other poisons secretly was evidence solution was strychnine, subsequent exwife was seized with convulsions and died. The doctors assumed that this course of an hour after this event his wife. It was forcibly taken from him morphine, and acted in a childish girl he was engaged to be married to which was retained did not show it was claimed that the morpha was amination proved it to be morphia and his conduct from this time on, was He was restored with great difficulty by taking morphia on the death of excitable and tried to commit suicide family, in which several members the prisoner came from a neurotic ive enough. The defence proved that clearly, the analysis was not exhaustdeath were due to strychnine, and aldesign on his part. On the trial it to restore her, suggested murder and structive conduct in all efforts made is one of heart disease and his obonbe the physicians to report the case His toolish conduct and efforts to in this, he was detected secretphysicians and nurses to leave the room, claiming that he wished without effect, she died in about eight is a large quantity of it remained unnours after the physicians were called issolved in the barrel of the syringe the prisoner was in the room at the pray with his wife. Failing leave

The prosecution declared that there was a motive in the crime, and his secret attempt to administer a drug was evidence of this. While acknowledging his use of morphia, they claim he still possessed sufficient were answered and described by the strychnine and morphia put in reckreasoning to understand the nature morphiamania and dementia, and that was insane, that his use of spirit and by expert witnesses, that the prisoner a little boy of six years old increased the happiness of their home life. The a morphia taker. He was an energetic erratic and changeable. Going from hypothetical questions pro and con, lessly and water poured on it, and inthe contents of the syringe were both plan or realize the nature of his crime. he was irresponsible and could not and predisposition developed into a drugs tollowing a neurotic inheritance they claim he still possessed sufficient morning when the physicians were dition of narcotic poison found in the dote and this accounted for the condal intent, and that he had given her the death of his wite she had taken prisoner asserted that the night before to be very amicable in their relations practice. His wife became a morphia and took morphia to such an extent that he had to change his location for physician, made friends, but drank tervals to excess, and hnally became became a druggist, then graduated as various experts, and the jury decided the strychnine injected. The usual that her death was directly due to jected before it was dissolved, also and consequences of his act, and that morphia at short intervals as an antitaker after marriage, and they seemed one occupation to another he finally large dose of strychnine with a suiciphysician. He used spirits at in-

untruthfulness, want of pride and petit efforts to take advantage. He smoked cigarettes excessively and was considered unsafe and reckless by his patrons. The commoto state of his wife, which he explained as due to her mitted suicide in a low boarding and instability. Later morphia was neuropath and psychopath. His early special medical interest are as follows nouse. Some of the conclusions of to twenty years to prison and bailed second degree. He was sentenced Mental changes were noticed in his used alternately with spirits. . And the attempted suicide showed unsoundrass erratic conduct and use of spirits and The prisoner was from inheritance a after he left the sanitarium he comsanitarium for treatment. Six months out, pending an appeal, and sent to a

attempt at suicide, was not unusual, she having been stupid from morphia before, his secretive act to increase her stupor was insane under the circumstances. It was one of the confused impulsive acts indicating an unreasoning brain. His whole life was a continuous history of a psychopath becoming a morphiamaniae, and dying by his own hands. The prosecution committed the same blunder seen in other parts of the country in attempting to determine the sanity and responsibility of a person whose history and conduct was that of a maniae. The trial and verdict was a medico-legal farce to determine degrees of responsibility in a morphiamaniae whose conduct was so obviously unsound and irresponsible as to be above all question. Such a case should have been tried by a lunacy commission and consigned to an insane asylum.

EDITORIAL

Аппоинсетена

have been consolidated and hereafter will be published as a part of THE NAL OF INFERRIETY. borators has been practically working and a number of most eminent collaly with a large circulation and ably edited by Dr. Skinner of New Haven The Archives of Physiological Therapy ments have been completed by which ment of these neuroses. Arrangepsychological therapeutics in the treatupon a new field of physiological and inebriety and its curability, by entering cumulated studies of the disease of its new decade, after thirty years of aclong parallel lines with THE JOUR-OURNAL OF INEBRIETY. This month-THE JOURNAL OF INFERIETY begins

In the opinion of its managers its scientific value could be made more

the great possibilities of cure in the practical by concentrating its work in some special direction. The disease of present some general preliminary articles giving outlines of the subjects iic treatment of inebriety must be pur-sued along these lines and that the various means and measures included are most practical methods of cure in this term of physiological therapy student will recognize that the scienticontinuing the work of The Archives est, bence THE JOURNAL OF INEBRIETY inebriety, and its allied neurosis is Both theory and experience indicate which will be taken up in the future. and prevention. In this number we has been selected as the medium for new held of the greatest practical inter-Physiological Therapy.

therapeutic effects of hot air, radiant light paths, electricity, massage, vibration and psychical measures, and intense interest to see them put to the test of practical use. The disease of inchriety and its curability is now recognized, but the scientific use of rational physiological measures is yet to be studied. The Journal enters upon this new field with the purpose of not only clearing up the confusion of drug and specific treatment, but to point out broader fields for the application of scientific measures for the cure and prevention

Inchriety and Insanity

to show his debility by a tendency to convivial excess, especially if he lives in a milien where such excess is common. This is very often seen in symptom of a psychical degeneracy alan irresistible impulse to excessive drinking may be the only obtrusive of than seen, viz., the so-called dipgeneral paralysis, and in other mental disorders; and in one such affection. or predisposed to disease by inherent the cause of mental disease, inchriety is its consequence. An individual for er frequency that instead of being lied to epilepsy. somania, the periodic development of weakness of mind, is notoriously apt to alcohol. On the other hand it In a certain number of cases where the drinker's nervous system was relatively normal, insanity is directly due reference to its relation to insanity on Alcoholism makes the following Dr. Sullivan in his admirable book

Of course, in all cases of this sort the alcoholic poisoning is likely to aggravate the morbid state: and where the original debility of mind is rela-

> sanity, too, may be set down to the account of alcoholism. do-alcoholics, and owe their interiority of brain organically to the parental in-toxication, so that ultimately their inan important force in insanity. But, ates of this type are themselves hereno doubt, that many of the degenerto the community. It is true, also, ganisations may be of real advantage down of unstable and detective orits influence in hastering the breaking even conceivable that in some instances acts as the sole agent in bringing about mental decay in the healthy. It is a cause of this insanity, it is very clear of alcohol in such circumstances being less important manner than when it from a social point of view, in a much that it is so in a quite different and, though we may thus in a sense speak

It is evident, therefore, from the foregoing considerations, that if we are to arrive at a correct estimate of the amount of the alcoholic contribution of mental disease, we must be able to separate these different modes of relation which may connect intemperance and insanity. On this account statistics which show nothing but the co-existence of the two conditions, or which attribute a causal influence to alcoholism on no better grounds than a history of drunkenness prior to the recognition of lunacy, are of small value. And, unfortunately, much of the available information on the matter is open to this objection.

It is a point of first importance to recognize that the direction, duration and general influence which alcohol exerts on the several functions of the body differ enormously in different persons. While the experimental evidence already accumulated formulates some general views of the susceptibility of alcohol and its influence, there

must be recognized a wide degree of individual variation; hence dogmatic statements of positive results noted in persons will not be sustained, although in a large number of instances they occur. Thus in one instance a person will show continuous exhilaration and buoyancy from the effects of spirits, in another, a short period of excitement, of an exaggerated type of exhilaration, is followed by depression and mental stupidity, while both have taken the same amount of spirits under similar circumstances, the difference is in the body itself. The susceptibility or immunity to its action would explain this.

There are other psycho-physical conditions and personal equations that act as disturbing factors so that it cannot be expected that the physiological action of alcohol would be the same, only in the general way, and this is confirmed by clinical experience and laboratory research.

Opium Probibition in China

China issued an edict punishing by death all persons who continued to smoke opium after a certain time. The opium war with England coming on later made it impossible to carry out this law. Now that England has agreed not to force the sale of opium on the country, the emperor has forbidden the cultivation of the poppy altogether, and after ten years its use must be totally abolished. It is calculated that forty per cent, of the people of China use opium, and hence forth every one is registered and the amount that he uses daily. Anyone who begins the use of opium will not be permitted to register, and will be punished as a criminal. Smokers of over sixty years of age will be regarded with great latitude and favor, but

ed with the greatest of interest will be permitted to smoke opium, but the amount must be less and less. Ar-rangements are to be made to distrigovernment is determined to forever it up. The decree sets forth that the sist anyone who finds it difficult to give bute prescriptions and medicines, cal-culated to counteract the effect of the carry on their duties correctly they who are over sixty, as long as they made to princes, dukes and viceroys tion or enjoy the freedom of healthy and will incur the severest penalties use of opium, will do so at his peril from this rule and that anyone from this time forward who begins the there will be no change or variation subjects are given fair warning, that prohibit the use of opium, and the drug, and efforts will be made to asup again, exceptions, however, are within a recent time and never taken drug must be abandoned at once, or persons. In the case of officials the will not be allowed to take any posthave their names publicly posted, and years those addicted to the drug wil wenty per cent. per annum. decrease the amount of opium used persons under sixty years of age must The result of this effort will be regard Atter ten

The Study of Labracty in England

In 1879 Parliament passed An Inchriate Act, providing for the organization and licensing of institutions for the control and care of inchriates and the appointing of a government inspector to take charge and regulate the organization, care and treatment of such persons. Dr. R. W. Branthwaite, for many years the superintendent of the Dalrymple Home for Inchriates, was made inspector. From that time yearly reports have been issued of the work and its progress. Beginning with four institutions, the

given them and the results, the statistics of the cost and imancial operations of the institutions are all detailed. The close connection between insanity and inchriety and the influence of heredity is brought out from inspector's report for this year is a most suggestive volume of statistics and facts concerning this work. The condition of the institutions, their management, the history and condimany other facts of great practical induring the last year, thus for 1905 there were 2291 patients treated in regularly organized institutions. The ceived during the year in these instiures. There were 1873 patients repatients, which received 418 patients stitutions becaused by the state and detutions. There were nine private inthe courts or by private legal measand receiving by commitment from town and authorities where they exist tions, supported and controlled by the them are government or city institution of the patient, the treatment pendent on the incomes from the data, together with

a degree of responsibility to conduct home or asylum for the treatment of the Union should insist that every reasonable methods. Every state in and treat such patients by scientific and and every manager and physician has tion for the promotion of secret cures inebriates by any ways and means possible. No one can open an institution is an immense advance over our under government control and inspec-The plan of having all institutions treating inchriates licensed and placed as that of insanity, and should come inebriates should be on the same plane any one to open institutions and treat present loose methods of permitting government supervision. If

> this was done the whole subject would be lifted out of its present confused condition and assume a reality of the most practical character. We should then know from authoritative data facts that are now vague and unsupported. We shall quote freely from the inspector's report, for it outlines work that should be done in this country.

any place where the treatment can be carried out that is adapted to his peculiar condition. He needs special treatment and special study in special surroundings by a broad minded intendents were incapable and did simply because its managers and superat Binghamton was declared a and it is exceedingly difficult to find which have proved valuable in an in-sane asylum or prison are failures. well as stupidity in others. He is a the time and occasion. The asylum management that is capable of adaptand hallucinations all mixed up in a great sharpness in some directions as not apply and cannot be made practi-cal. The inebriate is a most difficult It is a curious fact that when an institution for the care of inebriates ing means and measures required for to treat him by rules and formulas most complex way and the attempts maniae and a dement, he has delusions rest entirely in the management. The er. It never occurs that the causes be changed. The principle is said to be wrong and the institution a blundis badly managed and runs behind inle is not exactly at home in a sanator-He is both sane and insane, his trainreated according to theories which do patients are misunderstood and are orthwith the authority advise that it incially, it is pronounced a failure and and experience have given him The incbriate is a most difficult

> mira proxed beyond question that youthful criminals could be restored and made useful citizens, not by the specific drugs with chemical restraint fail and still the struggle goes on. other patients have proved incompet-ent for the inebriate. Quack cures and which have been found valuable in ing for some genius of a manager who will bring out the facts and show but now conducted on broad prin-ciples, they are curative in the highest sense. Inebriate hospitals are lookinstitution, but by his genius and capacity to adapt means fitted for their maladies. Reformatories before his inebriate and his malady and know by skilled men who understand the What is needed today is management asylums and other methods and means changed has done so for precisely the understand the work. Every other stimulate renewed efforts to comprecurative and restorative agents for the inchriate. It is the failures of the turn all these efforts into successful their practical adaptability and thus how to adapt means and measures for his restoration. Dr. Brockway at Elhend the subject and its wants day were failures to a large degree Prison, workhouses, hospitals, insane restore them were not understood known and the means necessary to same reasons. The patients were unnstitution that has suspended or present inchriate asylums that should

Malaria and Alrohol

A recent writer has been studying the diagnosis of persons said to suffer from malaria. He concludes that Dr. Osler's statement is confirmed, that no malaria is ever seen north of Mason and Dixon's line, unless it was imported. Also that the cases of so-called malaria are simply toxic

poisonings not due to the germ of

malaria.

and we hope our readers will make germ dating from former infections. and other marked symptoms of main hospitals where inebriates are treat-ed to note periodical chills and fevers toms. It is the common observation disturbances are all marked sympnervous system with derangement of quinine fail to neutralize and check sembling malaria. Large doses of may manifest themselves in chills and intestinal track, and circulating through the blood. These poisons mented toxines, accumulated in the heartily, are always poisoned by ferand excessive use of beer and spirits along the lines of other observations, Quinine seems to have little effect, laria, and the accepted explanation is the liver and general constitutional paroxysins. Depressive states of the fevers, coming on with regularity re-Persons using spirits and eating ous cases are due to the moderate arge percentage of so-called malaristudies in this direction to throw are certainly very significant, and specific remedies. These conclusions out salines and baths are almost hat they are due to some malarious farther light on this most interesting Another author believes that a

Spirit Drinking and Alcohol

The U. S. Commissioner of labor sent out 7,000 circulars to firms e-aploying large numbers of men, asking the question, how far would the fact of drinking bar a man from obtaining employment in their business, and was total abstinence, an absolute qualification for employment?

There were 6,976, of these, 5,363

world it he uses spirits. accuracy of thought. These facts are ded that drinking persons were not employment of men, but that such given by all these were the unralia-bility, and the losses, which invariably was discharged. The general reason ing, and everyone found using spirits ployed who was known to be drink answered that no one would be em ing man has no chance to rise in the significant, and show that the working was not considered a bar to the ing. The remaining 1,613 answered persons, were regarded as less rehable discharged, but that moderate drink followed from men known to be drink slaces requiring great judgment, and r ploved in responsible situations or hat excessive drinkers were promptly

If the labor unions would better their situation, and unite for more continued prosperity they would recontinued prosperity they would recongnize that long hours and low wages, and other wrongs are the results of the saloons, and the rum sellers, and not, of the manufacturers. All employers of labor find it to their interest to pay high wages, and retain good men, keeping them constantly employed, but the beer drinkers, and the agitators, and the men who spend their money in saloons are uncertain, dangerous help.

If the workmen would combine against rum sellers, beer shops, saloons, there would be no anarchists, strikers, agitators or demagogues, and there would be no Sunday concerts and sprees, and wild scenes of dissipation. Employers of workmen have no confidence in patrons of the saloon, hence they seek to get all they can out of them, knowing that they are likely any time to strike, and leave their work. If workmen were sober and

temperate there would be no need of labor unions, each man would take care of his own interests.

A great revolution must take place in this direction, before this imrest is settled.

The Poster Movement

A tew years ago the authorities of Paris printed and posted on all the bill-boards of the city and surrounding country, a series of startling announcements, concerning the danger of alcohol. A year later another immense poster, gave the views of a dozen or more physicians, on the dangers of alcohol, and this poster was headed. The Verdict of Science.

The most startling startments were made, and appeals to the people to shun alcohol as the most dangerous poison, whether in the form of wine, heer or cider. It was the opinion of thoughtful men that this Poster crusade was a very practical and effective movement.

Last year the city of Nottingham in England, kept the bill hoards of the town covered for three or more months with similar great startling posters of the danger of alcohol and alcoholic drinking.

Of course, the brewers complained, and the question arose, whether this method was within the range af santary work? The authorities of Paris decided that it was, and that the abuse of alcohol was a matter of public menace which requires extraordinary efforts to educate the people. The authorities of Nottingham took the same ground, and one of their posters read as follows: "The physical deteriation from alcohol," then followed a series of statements of the deadly character of alcohol, and the special liability to tuberculosis.

and all inflammatory disorders, Other cities of England, have been urged to officially engage in this work. This is probably one of the movements that will attract much attention in the future. It is seriously questioned already, whether startling posters kept on the bill boards of large cities would show any practical decrease in the number of spirit drinkers, also whether it might not startle many men to abstain:

Duration of Imprintes

The duration of Inchriates has come into question again. An unknown writer five given a study of a number of persons whom he claims to have used spirits to excess for a period from 20 to 40 years. The conclusion he arges is, that spirits has very little influence on the duration of life.

denied the statements and challeaged times. Since then I have boldly intoxicated more than one hundred find no records that would indicate some of the large b spirals, and could appeared. I made some inquiries in in challenging their accuracy. Some sand intoxications is the limit of duraof these persons were intoxicated author makes a statement that "Many all studies and observations, but the non and yet persons may go farther." daily and weekly, for these long, and periods" and cites Dr. Dana of New he possibility of anyone having been cars ago when these statements These statements seem to be so exjuire notice, they are so opposed by ravagant, that we have no hesitation ork, as having said that "one thou-Such statements would hardly re-

ders. The term "intoxication" is used to been represent a state of delirium and ork coma, of from one to several hours toxe duration. This is literally, a shock tion to the brain and suspension of the thing viral forces, and it is absolutely install to possible for recovery to take place sufficiently to tolerate the recurrence purity of such attacks in any great numbers.

An imbegle or idlot whose brain is already paralyzed might have frequent attacks of this kind, but there is a limit to endurance in this. In police courts where persons are repeatedly arrested for intoxication there is a certain limit rarely exceeding one hundred attacks: usually, long before this the patient becomes insane or dies. The statement that the man was drunk, every week of his life, is not true. He may have shown the effects of alcohol in his talk and manner, but to be intoxicated is a most serious condition from which recovery is slow, and the injury is continuous.

The periodic drinker may at long intervals be intoxicated, but there is a certain restoration in the free intervals. This may go on for years, but the number of intoxications will be found limited.

The continuous drinker in exceptional cases may use spirits 20 years or more, but long before this period, he is degenerate, and broken down, and careful inquiry will show that profound intoxication has been the exception and not the tale.

The brain and nervous system cannot bear the shocks of many intoxications. And this fact is not realized and the loose statements concerning it need revising and restudying in many ways.

PHYSIOLOGICAL THERAPY

ing inebricity and its means of cure. stitutions and persons who are study stantial and practical help to both in group a variety of facts and experi We shall in this way furnish and electro-therapy, mechano-therapy, hy-dro-therapy, dieto-therapy, areao-therapy, psychiestherapy and other will take up the special subjects or drug discuses, and the empirical prestate of the therapeutics of spirit and physiological lines. This departmen tensions and claims of specifics, cal the cure and prevention of inebricty physiological means and measures to idvanced step, sustained by all recent frug neurosis, we are taking prevention and control of spirit and neans and methods for the treatment or some exact scientific study along that will afford the most sub special study of physiologica The present confusiona upon this new depart 2 100

to Physiological Astron of Ha In

any great extert, betein aftering spinal sympathetic, the area of skin room the local application. crough to exert its action directly to acut before it penetrates deeply any circulation is able to dissipate the treated being so great that the capilpredominantly reflex through the The physological action of hot an

Europs made in connection with Microscopical and chemical examinduction by the body hot-air

blood corpuscles is increased in difhave demonstrated that the following patients under treatment by the writer olienomena are susceptible of immedi-

cent hours preceding. In a few instances in the twenty-four hours succeeding terest cases from litteen to little per however, a decrease in the quantity over that passed in the twenty-cour Third, the quantity of urine passed wenty-nee to one hundred per cent he treatment is usually increased from necessed from ion to twenty per cert as been observed. Second, the red blood cells are

in the twenty-tour hours previous. the treatment is increased from fitteen ed in the twenty-four hours succeeding o sixty per cent, over that exercted Fourth, the quantity of urea exerci-

upon oxidation and the excretory or in part upon the retention in the diseases which are dependent wholly think of the sumber and variety of structive functions are deficient, the modifications in the composition of the blood need above assume an inlogical conducous in which the reconwith different patients. It will be observed from the above that the air treatment, as indicated by its effect the sphere of action of the body hot upon such an hypothesis. When we frequently stated, but that its influence profundity than would be explicable eight hours and sometimes longer, the bencheial effect of body hot-air is not nvolves phenomena of much greater drosis and superioral hypersemia, as is nairely due to the arduction of hyperiime varying in different diseases and These effects persist with decreasonicusity, for from four to forty

The general phenomena induced by

volume. If it was weak before treatapplication, and the susceptibility to ing to the length and intensity of the one to five degrees Fahrenheit, accordthe body application are as follows minute, and is markedly increased in celerated from thirty to fifty beats per deep nerve centers. The pulse is acstimulation of the individual patient? The mouth temperature rises from

rather the reverse, in fact. ten cycles per minute, but it is not conditions the patient becomes dizzy, ing very soft and slow. Under these long it loses its volume and strength. accompanied by any oppressionucepens and the rate increases live to becoming rapid, small, and soft, but faint and nauscated. The respiration sometimes retains its volume, becom-If the application is continued too

electric fan. demonstrates the protreatment. The fact that the capilmarked in the regions actually in conjected to the heat, share this general tact with the heat as with the local ed, but this phenomenon is not as fundity of the reflex obtained. the influence of the breeze from an distention even when constantly under laries of the face which is never sub-The capillary areas become inject-

able to the patients, but quite the rehibited. The sensation is not disagreeverse usually. The patient reeks with perspira-tion; the acidity of which is markedy increased over that normally ex-

hour or two, and the patient usually about ten minutes, and lasts for an becomes drowsy and sleeps. A pleasant languor ensues after

oppressed breathing, which naustion, with cardiac palpitation and ong the languor gives place to ex-If the treatment is continued 001

By this profound stimulation of the

ment it now becomes strong of his phagocytes and tissue elements organs, and a rapid production of easily disposed of by the appropriate products, -urea for the kidneys, CO3 materials which are clogging metarapid and complete oxidation of effece deep trophic centers we secure a more we increase vastly the resisting power suffering from an intectious invasion deep sympathetic, but it the patient is tional disorders whose origin is in the obtain a corrective influence in nutri nents which are much better able than nore vigorous and healthier cell elefor the lungs, etc.,—which are then polic processes, into normal excretory and microbic invasion. We not only heir predecessors to resist toxumia I he profuse perspiration carries out

course of body hot-air treatments. prove generally for months after a but this exaltation of function is not followed by a reactionary debility: with it also a certain amount of promaines and thus assists in relieving the body is immediately augmented systemic toxamia. The functional Patients frequently continue to imctivity of every organ and tissue in

with hot air in order to accomplish will be seen later, sometimes necesever, usually advantageous and, as some conditions is much more proaction of hot air is in line with that certain results. sary to combine electrical modalities found than any of them. It is, howof hydrotherapy, electricity, the Turkish bath, and massage, but under It will be seen that the physiciogical

way is sometimes useful, but very both together. Massage in the same rarely necessary Neither alone will do the work of

DR. C. E. SKINNER

PHYSIOLOGICAL

THERAPY

gestive and worthy of study. study of electricity and its doses in medicine, makes the following strong plea for conservatism and scientific New York Medical Journal is sugthe treatment of nervous diseases. proneer students of electricity and one of the most distinguished and Dr. A. D. Rockwell of New York

than it is capable of giving. its progress by claiming for it more and it behooves those who are direct push its way through much indiffertreatment. It has been compelled to permanent addition to our methods of the writer, is undoubtedly here as a already served us well, not to hinder Electricity in its several forms, says sometimes actual opposition, rested in an agent which has

the efficacy of the agent which he has In surveying the current literature of electro-therapeuties, one cannot methods, the more are we inclined to ment of electrotherapy is, that the encouraging feature in the developstatement characterize every public ut-terance or written report. The one tion, and over-confidence and overfasm develops in the opposite direchand, the enthusiast becomes an alto the temperament and environment two-fold way, very much according want of judicial candor works in a or judicial rairness that prevails. This but be impressed with a certain lack exercise rational judgment in testing crudely tested. On the other, enthusof the individual. we knew about physical On the other

organic and structural changes, aldone through electricity so rash as to claim that much can be At the present day there are lew tor grave

> 17 ardent disciples exploiting the use of strongly simulates the graver disease. structural, especially when the milder me's experience is limited to mistake ments of cures, in the majority of ins charitable to ascribe these stateelectricity and other physical methods though occasionally we find some over is is so often the case. msrcpresentation. stances to misconception, to a faulty liagnostic sense rather than to wilful functional condition for one that is the ataxies, etc. It is so easy, if In such cases it

and if indicated what manifestation is cide in any given case whether elecmost likely to yield results. To in-licate the measure of benefit to be ricity is indicated or contraindicated, expected is quite another matter. It is no very difficult matter to de-

and cuts both ways. It may act as a stimulant or an ugly irritant, or in equaled sedarive. nervous system, as a prompt and unmany a hyperæsthetic condition of the gotten that this agent is double-edged acutely painful and hyperæsthetic conessentials, it is more than likely that it need do no harm, but lacking these possible result. For let it not be formore or less permanent injury, as a ditions will become aggravated with skilled technique, if it does no good. working knowledge of physics and ditions of disease. With a good the use of electricity in chronic conlitions. Fortunately, there are comseverity of existent pathological conparatively tew contraindications for rult to accurately gauge the extent or thiosyncrasies vary, and it is diffi-

It is simply a question of technique and differentiation in the choice of modalities. If one is to be master of result in a truitless mest, he must be the use of electricity in medicine will an efficient technique, without which

siology. Above all, he must study to do, and which if clearly and generall the phenomena with which it has Ohm's law, a law competent to explain rent, come only termed the galvanic. stem the unfortunate and familiar both with its physics and phymanifestation of the continuous curdisregard of that most important ally understood, would do much to increasing

upon which in great measure must be based its utility in medicine. Dr. Rockof the nutritional effects of electricity any other in modifying the nutritive as well as local. As Niemeyer recog-nized long ago, referring, however, action is nutritive and constitutiona have little vitality. Its well attested system under their control. It acts, therefore, not merely as a stimulant applications. Both analogy and exsymptoms, are benefited by genera plication, many constitutional condition is benefited by a purely local ap-Where one local pathological condithan in its local administration. creased by these general applications. scated." Whatever the modality emor a sedative. If this were so the the entire muscular and circulatory tained only as it affects either directly tional effects of electricity can be obtions with their varied localized well emphasizes the fact that its greatother tonic remedies, whether mediction and capacity for both mental and ployed, in varying degree, the disposiconditions of parts that are deeply in it a means more powerful than only to the constant current, "we have cause of electrotherapeutics would peripheral nervous system, including or reflexly the whole central and perience teach that the full nutriphysical, effort is undoubtedly in-They act indeed very much, as do Reverting to the fundamental idea

> alone can be ascribed the power to no one method of general application either by an increase, a diminution. creased power of assimilation. The a more vigorous digestion with inthere tollows improvement in sleep, inal or hygienic. In selected cases or some modification of quality. To doubtedly upon the power of electricrationale of these results depends unproduce these results.

general faradization. well attested, but now neglected and last, but not least, the older and method of general faradization. duction and autocondensation, static With the requisite equipment we have at our command high frequency the author urges a recrudescence of two strong and sufficient reasons why tion of electrotherapeutics, there are testing every new process in the evolu-While fully recognizing and carefully its central and generalized methods application, the galvanic current with electricity with its various methods of currents with the methods of autocon-

well equipped, and he who has abangeneral methods and not unfrequentexperience he has found that general knows not its technique is by so much doned general faradization or who at least equal to any other of the bilities of the agent employed. ly a merit and an effect all its own. the poorer in the therapeutical possi-To do the best work, one should be turadization has an individual merit, Because in a long and varied

that required by most of the other slight expense even of the very best skill to administer a satisfactory appliapparatus. It certainly requires more study and more general use is the cation of general faradization faradization another argument for its Admitting the value of general

methods, and to this, conjoined to the partial disrobing of the patient, and the time and labor required of the physician, is to be ascribed, in part at least, this neglect of a most important part of our art.

again because it is the only manifestaquite as good, if not better, than those the galvanic current the results are ment of Basedow's disease, that with a very large experience in the treatsurgery in certain cases, and valuable or the ligature of the nutrient arteries, steps in to limit this excess of secreof hyperthyreoidization as the causaand internal cancer, and especially for rent for the relief of with absolute accuracy and satisfac tion of electricity that is both phyupon the central nervous system, and relation to the galvanic current, first able exceptions. action, although there are some notdisadvantage is that it is slow in its offered by surgery or antitoxine. the writer is constrained to say from as may be the artitoxine treatment. Much as has been accomplished by tion of the toxines by an antitoxine while medicine attempts a neutralization by partial resection of the gland tive factor in this condition, surgery have massive doses. On the theory disease, exophthalmic goitre, we must the relief of that ordinarily intractable due to parenchymatous degeneration icuritis, as in sciatica, for the pain variation of which can be measured siologically exact and the slightest power and its protound influence because of its chemical or electrolytic portant one, and especially so in The question of dosage is an In the use of the galvanic cur deep seated

But the dose must be massive. There is no use for suggestion here. The idea that two or three milliamperes can be of any real essential serperes can be of any real essential serperes.

up to, but not beyond, the point of skin. An analogous condition con-ironts us in the use of the X-Ray when endurance, but without injury to the gical uses where an anaesthetic is de-"What constitutes a massive dose?" vice is based upon faulty observation, the efficiency of the rays. and the force actuating it determine penetration and localization of the current, as the vacuum of the tube current strength determining the pended upon the skin. The size and quality of the electrode combined with plished as is now agreed by using tubes of high capacity and great penejury to the skin. This is best accomdeep penetration is desired without ingalvanic current is where it is carried manded, that a massive dose of the tect appreciation of the physics of nadequate experience, and an imperow capacity, where the effect is ex trating power, rather than tubes o he writer answers, barring its surquestion arises

Bearing in mind the law that the greater the area the less the resistance, it follows that in order to get the best effects in deep seated pathological conditions the area covered by the electrodes should be as great as the nature of the parts permits. The nature of the electrode is also of importance, and in sculptor's clay of the proper consistence we have an ideal electrode for the purpose of giving the maximum effect with the minimum of injury to the skin. Unfortunately, however, it is difficult to handle ordinarily. To overcome in some measure these objections, the author has devised and used for years with the greatest satisfaction, our electrode consisting of rimmed discs of hard rubber of any diameter desired, the bottom being covered with blocked tin, which is practically unoxidizable. Filled to

the brain with the clay properly prepared it is ready for use.

unwilling to bear the necessary disal to the number of square centimetre comes practically expended before reaching any depth. That the effect the strength of a few milliamperes bestructures. No fact of science is betfor the utilization of an efficient tech get the desired result. comfort it will be often impossible to tiveness, and if they are unable or of course greatly vary in their sensimuch greater than this. Individuals logical conditions, the necessary of the current is inversely proportionsety when mild currents are used, that body, but its lines of torce converge current. Truly it passes through the therapeutical doses of what are comury, so as to affect the deeper ant question is, how to overcome the rique is, that the human body is hide the current strength must often be rophic sedative and circulatory effects imetre. To get in deep seated pathounder one milliampere per square centhat the current density should be our it is idle to say, as has been said proportional to the number of mil-hamperes of current is self evident, surface of the electrode and directly so instantly and have such slight denthe points of the recomposition of the electricity are concentrated mainly at nonly called the dynamic forms of physical and physiological effects of er established than that the direct great resistance of the skin without insound, so to speak, and the import The fact to be borne in mind then

Mineral II ater in the Treatment of Drug Taking

The alkaline waters either hot or cold are valuable remedies in drug taking. Waters containing sodium are the most pronounced tonics, not

than in large doses. in very small doses several times a are marked. Many mineral springs inish the chronic inflammatory conditonics, but should not be given any with sodium are very pronounced er and kidneys. Waters containing iron Soda waters with sulphur are often only in their stimulating qualities, but able than the same waters artificially natural spring waters are more valusorbed and medicinal in their effects day, they are more thoroughly abmost of them are purgative. Used have a pronounced diuretic effect, and mineral waters, it taken in quantities and no doubt depends on the remova have a narcotic action, but this is mild and have a certain drug takers, hot salt and sulphur baths are rather of an irritant character. in when used in baths, internally they seems to have a peculiar tonic effect sodium salts cannot be borne internalthem, and in this way acting to dimsalts seem to have an influence over length of time. The ordinary sodium waters, particularly of sodium, have been retained by the drugs taken. All of the toxins and the waste which Few of the mineral waters seem diminish the neuralgias and myalgias ly, but externally their good effects tions and products. In some instances the deposits of fibrin, diminishing become repugnant. Warm sodium where the waters are warm, they soon can be taken a very long time, but tion. Sodium waters made cold by ice pectoration and the inflammatory acthe air passages, diminishing the exsodium are indicated. Warm spring very stimulating, but cannot be used in their power to neutralize the gas. pronounced effect over the diseases of from hyperacidity, hence the salts of Nearly all drug takers suffer sedative effect, Many of the

a long time, and in small quantities arsenic are valuable, but must be used good for temporary effects, but cannot sium salts in the mineral waters are that has not been recognized. Potassome gas, or some radium element conditions. They should be given separately and not associated with bitup again in an interval of a week. Nimeral waters should be used in the Warm mineral waters have a dia-phoretic effect, and where not folsalts waters may be indicated, and in some instances appear to have an aleither hot or cold, according to the nite proportion of salts and used soda waters can be made with a dehmoved from mineral springs, artificia manner of use. In institutions relowed by depression, should be used discretion exercised as to time and and their value depends upon the treatment of all drug and spirit takers, treely and then abandoned or taken relied upon as great helps. objections, but generally they can be of spirit and drug taking. Indiscrimmost valuable remedies in all cases principally of sodium and iron are the It may be said that mineral waters be given with the very best effects. sulphur waters in specific diseases may most specific action. The iodide and mately used they are open to some Waters containing

The Treatment of Inchricty by Psychic Methods

that act as causes of disease—predis-

posing or exciting, and various out-

at present. The following summary gives a very good idea of the possibilities eases which are practically unknown not only in inchriety, but other disfrom a study of the psychic treatment,

> ment and mental states and their repeutically. Second, a study of temperalines of how the mind may act thera-

sanity, and yet of a pathologic aspect, lation to disease compatible with

new questions and phenomena of psy-Physiological therapy includes the

> states and phases, and mental back such would include various nervous

This may be owing to in this subject, declares that medica chical therapy, or the study of the sical, and the student comes out a field which can be used in every effort psychology is a distinct and practica one of the pioneer writers and students Dr. A. T. Schofield of London, Eng. tween the physical and psychic is very close, and the time has come to take taught in the schools are purely phyin the treatment of disease. Up to influence of the mind over the body is another field of the psychic and subknowledge of the power of the mind rank materialist, with little or no this time all therapeutic methods manner of disease: with the genera thus taking up the great question of and body: first of all in disease recognition and study, first, a general study of the interdependence of min.l several distinct outlines which deman question of treatment. There are recognition of the mind and its in-fluence must be considered in the matter what the disease may be, than anything that he can use. No agencies to help, that there are unand thinks of physical means and ognize as he stands by the sick conscious from which the directing ogy are not exclusive regions, there up this study. Physiology and patholover the body. the life of the body: and then the very thoughtful physician must recorces of health and disease proceed. The connection bebed

> grounds and habits of thought, fixed mobile and erratic. Third, the bearand the whole range of therapeutics. of psycho-therapeutics. Fourth, the psychology of drugs, natural remedies the power to aid or retard the action and cure of diseases, and especially in status and environments on the cause ing of character, education, socia

the body. It is this phase of study ways and means by which a physician can make use of it to aid or retard its harger element of the emotional and mental, which influence and control and organic alterations, there is a stil a very marked element of the physica cessfully understood. While there is all forms of suggestions and autosugoperations. Sixth, a scientific study of in all its powers and aspects, and the profession. that the quacks have exploited, which has not been taken up by the regular mand study of this class to be sucthe psychic and toxic are blended, deland of sanity, and diseases in which gestions. Diseases alon, the border all forms of psychotherapeutics, and the study of the vis-medicatrix naturae than their psychical qualities. Fifth, owe efficacy to their psychic, rather well known remedies will be found to Here, to an unsuspected extent

sity be relegated to those who elect to devote themselves to it as a specialty. the therapeutic value of each has been abundantly established. No intellition that such treatment must of neceshelpfulness of each of these measures, but as with electricity, so much special of the past one hundred years, and strable for their successful administragent physician can afford to ignore the basis are outgrowths of the latter part ment of hydrotherapy upon a scientific mechanotherapy and the re-establish "The revival of massage and of

> ment by climate, exercise, both active and passive, the use of baths, and atshould be mastered by every physician velop once more a race of men godand may confidently expect to deto the practice of the ancient Greeks. ing physiological methods of treatshould be daily prescribed. and such measures as can be carried tention to diet, we have gone back out by the patient, and they are many like in their physical perfection.'— John L., Heffron in Chicago Clinic. But the principles of such treatmen in reviv-

High Frequency Currents and Arterial Tension

a great significance in the treatment of incbriety. All inebriates suffer from sults and suggestions of value. is it possible to restore the arteria this condition and the question arises, Physioltherapie, gives some new refrom Dr. Doemer, in the Journal de derangement, by electrical currents? The following excellent contribution The question of arterial tension has

and Legendre, and then gives the re-sults in several cases which he has intensity. so6,000 Gauss is the most favorable electro dynamic intensity of the treated himself. He uses Verdin's sphygmometer. He measures tions of D'Arsonval, Oudin, Moutier Doemer recapitulates the observafield

The source of the high-frequency currents is a large DeRochefort coil, giving sparks of 50 centimeters, and seances of ten minutes each. charging the plate condensors in petroleum. He gave

of 27 centimeters to a tension of 13-5 reduction from the original tension any fall of pressure immediately after the seances, but there was a gradual He did not notice in the first patient

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centimeters, in the course of about effect in the three other cases which three weeks. There was a similar

acteries and capillaries in a healthy individual. In an individual of high arterial tension they produce a lower ing of the pressure. Therefore, to quantity produce a dilatation of the normal blood pressure there is an inan individual with lower than the individual in a healthy state, while in of the arteries and capillaries in an produce an energetic vasconstriction should avoid applications of quantity, crease of pressure. sion such as the resonator effluvia and on the contrary, applications of tensuch as autoconduction, derivation from solenoid, and we should employ patient with low arterial tension we He says that currents of tension versa in cases of high arterial The currents of

The Importance of Massage

ebricty has been established, and is renervous diseases. Its value in insage in the treatment of org. observer. He says: peatedly confirmed by every careful Journal, makes a strong plea for mas-Dr. Rankin in the Pacific Medica nc and

entirle it to a better representation on school of practitioners would seem to the basis of a in unskilled hands, renders such satiswho have in it a method that, even school, and a rescue of the art from the curriculum of the modern medica forms of ailments by the regular tinuous use for the relief of certain peutic value of massage and its confactory results that it has furnished the hands of charlatans and imposters "The early discovery of the theraso-called "school" of

Foo little attention has been given

a practitioner, who is skilled in the art, and to prescribe the form of massage to the study of manual methods of the movements that should be used. often without a discrimination as to edge of the pathology involved and a diagnosis and leaves the rest to the seur he sends the case to him with measure. If he does employ a masployment of any other therapeutic and the dose as he would in the emhe hesitates to call in the services of relief might be afforded to a patient today, and even when he thinks that therapy by the American physician of judgment of a person without knowl-

many pathological processes and when means. administration of other therapeutic same care that is bestowed upon the effect upon all physiological and it is employed it should be with the Massage has a definite and marked

out of directions for prolonged periods, even if they can be trusted training that enables them to judge is not to be trusted with the carrying massage or we, with equally unjustified cases, while many are too indolent to of the results of their work, and many this country they have not had the tion or relieve swellings, etc., do it unless they are under fairly conhave not the physical strength reqmovements to secure nervous relaxato treat cases requiring soothing during the routine of general nursing nurse whose training and equipment credulity, entrust the case to a trained assume that any person who has a stant supervision. In this matter we uisite to properly manipulate asthenic hospital and never can be perfected foreign accent is competent to give for such work is neglected in the The average masseur or masseuse for in

ground for the demand that there There would then seem

> practical clinical training in this therashould be given to all medical students able cases and can personally apply the proper movements himself or peutic means, so that the physician can supervise the work when executed by utilize this form of treatment in suitcourse of didactic instruction and

the Journal. interesting to state that in this Clinic their results are published monthly in used is the Chattanooga Vibrator and satisfactory results. The instrument inebriety and drug taking are treated the same as other diseases with very the following cases were noted. tory stimulation by mechanical means,

maining under observation. All cases of paralysis are included under this be traumatic or not. head, regardless of whether the cause by the treatment, the other three re-

i. e., pain and stiffness in the muscles would be relieved for a period of from restoring muscles to their normal ing about increased activity and in in relief of contractures and in bringimprovement in these cases consisted one to twenty-four hours. Permanent benefited temporarily at each seance, As a rule all cases of paralysis were

of several months' standing, and in the majority of them absorption of In many of the patients there was very recent origin; most of them were the clot had None of the cases treated were of been almost completed.

A new work entitled "The Drink Problem, Its Medico Psychological Aspects," is issued by a London house, on various phases of the subject. It and is very interesting from the num-ber of papers, all by medical men,

symptom occurred relief was afforded. more or less inability to control the sphincters and in all in which this The treatment in the case of paralysis was about the same in all, i. e., both ocal and spinal treatment were used. The spinal treatment was given with

in the New York Clinic, for vibra-It is and spicen. condition. The brush was also used with pressure regulated to the patient's

over the lymphatics and over the liver

brush attachment, medium stroke and spine. The local treatment over the paralysed parts was given with the

pressure the whole length of the

stroke and with medium to heavy the ball attachment with a medium

Nine cases of paralysis were treated, six of these cases being benefited

majority of these cases were of the kind that had been the rounds of all

they had had many treatments.

the very first treatment, while others failed to show any improvement until

Some of the patients responded to

remedies that are prescribed in such the legitimate and all the fake

jections of serums, etc.

recourse to some of the various in-

conditions, and few had been benefited by any of them. Practically all of them had been under one or more of the various forms of electrical treatment, and most of them had had

restoration of a normal temperature to parts in which the temperature was provement was shown, and which was subnormal not mentioned above, was in the Another direction in which im-

stimulate the trophic centres, while the exercise to the muscles. local use of vibration afforded passive The spinal treatment served

sale. will be welcomed by all students of tive matter in a popular form, and would naturally have a inebricty. Such a book in this country certainly furnishes some very suggesvery large

billion deadly doses, or six times as much as would be required to kill drugs contain from three to six per aware of the fact that these common to a full grown man at a single so deadly that twenty grains might into the United States alone is more of tea and coffee imported annually every man, woman and child on the than lifteen thousand tons of poison than one billion pounds, or five huncent. of a deadly poison. The amount use of tea and coffee as a beverage are on this subject said, "Probably very face of the earth. produce fatal results if administered few of the millions who daily make lose,-amounting to more than ten fred thousand tons, containing more Dr. J. H. Kellogg writing recently

indeed be incidentally involved, but germs and other influences which may overwork, sedentary habits, climate, follow from the use of tea and coffee are attributed to other causes, such as very fact serves to conceal the injury and so well nigh universal that this of tea and coffee are so widespread are not these deadly effects more apare not primary in their influence. that the poisonous effects of the use fested?' In reply it may be said first parent, and more frequently mani-The question is asked why, then The bad effects which really

reached middle life, the almost uniwomen of the higher classes who have sallow complexion, common among observations in relation to it. The this question, and has made careful tea and coffee are very decidedly manionous effects resulting from the use of fest to one who has given thought to Further, we will say that the pois-

> ture of a drug capable of producing is not weary. irresistible drowsiness in a person who doubt for a moment the poisonous naaffords sufficient evidence of their in producing wakefulness, banishing as it by magic the sensation of fatigue. allied beverages, coeoa and chocolate. ample evidence of the toxic or poisonence of nervous or sick headaches, atwomen, and many common digestive versal nervousness among American poisonous character. No one would The well known effect of these drugs ous character of tea, coffee, and the ford to the experienced physician disorders, and the increasing preval-

poisonous character. fatigue, is equally evidence of its ly inclined to sleep as the result of wakefulness in a person who is strong-The power of a drug to produce

comfortable when the usual cup is discoffee finds himself nervous and unevidence. beverages which is very trequently poisonous character of these common is accustomed to the use of ten or pensed with, is another proof of the Again, the fact that a person who

ant effect. which is accompanied by such impleasaccustomed. It is only artificial stimreverse. The evidence of its harmful an expression which one often hears. ulants or narcotics the withdrawal of temporary withdrawal of ordinary No such results follow the incidental and poisonous character is conclusive. is necessary or beneficial, but the very experience is not that the coffee or tea The conclusion to be drawn from this ing without it for the whole day, is for my breakfast; I am good for noth-"I must have a cup of rea or cohee

effects. The volatile oils give rise to to cattein, tannic acid and various shown to diminish the activity of the contains caffein. Each of these poisons produces characteristics harmful volatile poisons. peptic glands and to interfere with provoke serious nervous disorders. nervous excitability, and after a time aftem is a narcotic, which has been I ea and coffee contain, in addition Roasted coffee also

of tea or coffee, greatly impairs the of caffein, an amount which might easily be furnished by an ordinary cup its total acidity. quality of the gastric juice, lessening Wolfe has shown that three grains

creating a desire for the soothing el-

fect of some narcotic drug.

saliva upon the starch of the food, and may even wholly destroy its efcoffee interfere with the action of the ounce of tea leaves produces decidedly poisonous symptoms. use of a decoction prepared fron one Robert showed that both tea and Dr. Wood proved that the daily

not only interferes with the digestion digestion to be reduced one-third by of starch, but also prevents the proper the use of tea. The tannic acid of tea figestion of albumen. A German physiologist found the

nating every minute.

state of things exists. eral civilized countries where a similar the free use of coffee. There are sevalmost the entire country is in a perserver residing in Brazil declares that ment against it. An intelligent obpetual state of semi-intoxication from does not lessen the force of the arguair substance, is very widely used The fact that colice, or some sum-

to adopt a dry dietary, making free one's self of the tea or coffee habit is very common in England and Australia, especially among the poorer I ea drunkards are reported to be The best means of rading

use of fruits, especially fresh fruits, as these irritate and excite the nerves dispense with flesh foods of all sorts a person who desires to free himself soothing effect of a narcotic. Hence nerves, and create a demand for the extracts unquestionably excite the Condiments must also be discarded tea or coffee habit, must first of all also stewed fruits and truit juices. Flesh toods and animals broths and from the alcohol, the tobacco, or the

water, or applying first hot and then accustomed drug may be wonderfully The nervousness and irritability which follows the withdrawal of the cold compresses to the spine, alterat a temperature of 93 Fahr. to 96 be relieved by the application of an of distress through the chest, this may heart, or rapid pulse with a feeling sary. If there is palpitation of the be indefinite; several hours it neces-Fahr. The duration of the bath may relieved by the prolonged warm bath the spine alternately with hot and colo ce-bag over the heart, by sponging

diet, are other measures which are imcold towel rubbing should be applied measures fail. The cold friction and easily digestible, and unstimulating cares and worries, and a nutritious, two or three times a day for the purbody with the hands, dipping them lef as far as possible from ordinary In abundance of outdoor exercise, repose of toning up the nerve centers. The wet-sheet pack will sometimes seent means of re-enforcing the heart, requently in cold water, is an excel-Rubbing the whole surface of the

a delusion. A The use of substitutes is a snare and hot beverage, made

may be tolerated, but it is better to avoid even this, so that the habit of drinking at meals may be overcome, thus getting as far as possible away from temptation."

Alcoholic Neuritis.

Dr. Coriat read before the N. E. Psychological Society, at Worcester, a very interesting study of the above subject, illustrated by a number of cases, which appeared in *The American Journal of Insanity*. He summarized some of the recent literature, grouping many very interesting facts. The following is a quotation:—

epileptiform seizures, are present. manifest in polychronic disorders, and reinfections from auto-toxic products pyrexias, remissions in disease and the trequent and severe pneumonies and hints. In the respiratory tract the the course of the delirium are also min and acetone in the arine. The latter frequently running parallel with are significant. In the renal system the Bradycardin and dyerotic pulse neuritis; the cardio-vascular system ture of the disorder; in the nervous min, is shown by the widespread nation of this toxine, we are in the dark ably, not identical with the alcoholic a general Auto-intoxication, brough of chronic alcoholism, but it is rathe in addition the occasional hyperthe presence of easts albumose, albupoison. As to the nature and producresistance through alcohol; but probabout by the lowering of the body but that there is an intection or toxe ture of the toxic process, is important origin, he remarks, "The selective na alcoholic deliria, as an exacerbation for today we no longer look upon the Speaking of neuritis of an alcoholic The central and Periphera

Alcoholic poisoning is insufficient to cause this manifold symptomatology. The psychological and physiological expressions of experimental alcoholic poisoning in man has shown nothing which resembles these disorders, as the isolated effect of measured doses of alcohol."

The author concludes that these symptoms are due to some unknown alkaloid, if which alcohol is only a predisposing cause. The tollowing are the conclusions which he draws from the study of the cases and the literature.

complex to delirium tremens and Noralready seen the close relation of this sakow's disease. an acute policencephalitis and we have when there is a central change a coman isolated paralysis of one of the eye crous cell groups of origin of the nerves, or changes in one of the num the latter case we have the complex of plete ophthalmoplegia may result. In muscles, when of peripheral origin, or the central gray matter. In one case this may give rise to either a prosis or oculo-motor nerve in the region of as a central or peripheral eye-muscli take several distinct varieties, either peripheral fibres of the various ocular palsy, in the sense of a neuritis of the 1. The neuritic disturbances may

The associated mental peripheral disturbance, whether the exe-muscle paralysis be of central or peripheral origin, is caused by the profound implication of the higher central neurones, and we have either a delirium with marked allopsychic disorientation or a fabricating psychosis. On the contrary there may be a peripheral neuritis in the ordinary acceptance of the term with the associated central changes in the form of a degenerative process in the posterior columns of the

a degeneration of their connected axonal reaction of the Betz cells with cancuritis as closely related to the con-tral changes, both in the sense of the upon the mental disorders of alcoholcombined with a delirious or a peripheral eye muscle paralysis true peripheral with a central neuritis bination of a peripheral with a cernost has been especially well shown by the recent work of Cole, who also looks sociated with central lesions. it I types, as cases of ordinary periwith pecular and prominert, but aldinically only as a terminal disorder tems and their cells, and manifested central distribution, with a parenchyneuritis may, however, be entirely abthis symptom. Signs of a peripheral strong, in fact, that Dejerine has proed with the neuritic pains that it bears cord and their nuclei in the nedalla. pheral neuritis are nearly always associated with central lesions. This There are, however, no sharply limtorns. Sometimes there exists a commatous degeneration of various syssent, the lesion being pre-eminently of posed the name of neuro-tabes for has been so marked at times, combinstrong resemblance to tabes, so his posterior column degeneration pathognomonic motor sympstate.

generation analogous to tabes.

2. There may exist the form of psychosis described by Korsakow, but which also may occur without any signs of a peripheral neuritis and in addition may be caused by other factors besides alcohol. It may arise out of a depressive or stuporous state, an acute hallucinosos or an ordinary delirium tremens, the latter, especially if associated with transitory neuritic disturbances, may present many allied features of the height of the disease.

3. A delirious state, strongly resembling delirium tremens, but of a very acute onset and when associated with signs of a peripheral neuritis, there may exist in addition a marked associatation, extremely poor retention, defective memory for recent events and confabulation. Under these conditions we have an acute Korsakow's disease. The confusion is usually deeper than in ordinary delirium tremens, especially it associated with an eye-muscle paralysis; the physical decay is extremely rapid and may end with the motor disorders of a terminal central neuritis. The course of the disease is usually acute on account of the rapidity of the pathological process.

4. A very acute delirium of Korsakow's type, with isolated neuritic symptoms and progressing rapidly to recovery.

s. A trac delirum tremens which may shade into a fabricating psychosis. In these cases, recovery is not complete, but there remains a light degree of mental deterioration, or the delirium may rapidly subside and leave a slowly improving neuritis. If neuritic symptoms appear during the delirium, there is always supering posed suggestibility and mark. 'fabrications. It is these types which show the extremely close relation between delirium tremens and Korsakow's disease. These cases differ from our third group by the absence of physical deterioration and the strong tendency to a partial recovery.

a well marked posterior column de-

fibres in the pyramidal tracts and of

6. A group of cases with a protracted course, showing a marked depressive effect, with suicidal tendencies, strong religious ideas, episodes of great fear and anxiety and a marked hallucinosis. At the onset or height of the disease signs of peripheral neuritis are absent, but during the

ritic signs. On the other hand a perialcoholic paranoic states without neuanalogous to the paræsthesias of the tavorable. tions the outlook for recovery is very nection with typical fabrications and disorientation. Under both condithe hallucinosis to appear later in conpheral neuritis may be absent during neuritic pains may form the basis of psychic disorientation, in which the lucmosis, entirely free from an allo-There may be a pure acute haldelusional interpretations

very rapid course, with marked physical symptoms of a polyneuritis or there may exist a dreamy hallucinaation or amnesia in either case Depressive delirious states of a

tremens and showing striking features of difference from Korsakow's disacute type, not resembling delirium A fabricating delirium of an

a marked recent memory defect, runio. A group of cases resembling at first an alcoholic deterioration, with almost complete recovery parallel with ning a rather slow course, but with an the improvement in the physical signs

Alcohol and Cancer

a very graphic article on Some Causes of Cancer says as follows:-University of Washington, D. C., in Professor Reyburn of Howard

cancer that we would mention is the The second predisposing cause of

> alcohol as an article of diet. habitual use of the various forms of

there is a more insidious and more every tissue and organ of the body. blood and thence circulate through alcoholic drinks, when taken regular-ly, than is generally recognized. The dangerous effect upon the tissues of use of alcohol as an intoxicant. But to the community as a whole from the dividual who partakes of it, and also amount of evil that is done to the indilute torms of alcohol enter into the he body from smaller quantities of No one can deny the enormous

water of the tissues, dehydrates and cohol, by powerful affinity for the an injury or necrosis of the living dle it, and if we have a local irritation, the results. If we may use the simile ening and degeneration of organs are retained in the body, and tissue hardproducts which should be climinated of the body of those effete and waste in the body. In other words, it diminthis, but alcohol is a retarder of waste may result. tissue, a malignant or other neoplasm the fuel is already for a spark to kin-These used up and waste matters are hinders the separation from the tissues ishes the metamorphosis of tissue, it prematurely hardens them; not only What is the effect of this? The al-

time, especially when at the same time produces dire effects in the course of under the form of medication, and more than a thinly disguised tippling The daily use at meals of the various "bitters" etc., is essentially nothing their physician, to have used them. pected during their lives except by of alcoholic drinks who are never susinfluence of and die from the effects little or no bodily exercise is taken. Many persons live daily under the

cause of all we believe to be the con-The third and most predisposing

> own person the total giving up in later years of the use of alcoholic drinks. past 82, says that in old age we ought to diminish the amount of food taken; he further says that half of our ills in old age are due to overfeeding. He sened, and the amount of food given to such persons should be diminished. nitrogenous tissues of the body. In also advises and has practiced in his Sir Henry Thompson, who is now ly for nitrogenous parts of it, are lestheir power of assimilating meat is still further decreased. In fact, as holic drinks, even in small quantities sons are habitual consumers of alcoor nitrogenous food. If the same permum, thence they need very little meat persons leading inactive lives the con-sumption of bod'lly tissue is at a minispeedily see that it is taken to supply of meat as an article of diet, we wil genized food. It we consider the uses sumption of too much meat and nitrothe waste of the muscles and other life their needs for food, and especial persons advance toward the close o

even when they are habitually users of alcohol, the frequency of cancer is tions require them to take a great dea amounts of nitrogenous food, and ring among men who labor in the open of continuous practice we have seen of exercise, or when they perform hard manual labor. In forty-nine year greatly diminished when their avoca are burnt up by hard manual exercise waste materials produced in the bod ception of lip or tobacco cancer occur very few cases of cancer with the ex-In persons who consume large The reason, no doubt, is that the

The Degenerative Action of Alcoho

Dr. Robinovitch, in a paper before the Belgium Congress of Neurology has the following, concerning alcohol in a paper on the Genesis of geniu

> in my paper on the genesis of epilep-This fact was particularly exemplified ofispring, is apt to cause the birth of an idiotic, imbecilic, epileptic or other-wise degenerate child. It is further cohol at the time of conception of his offspring. (2). Clincal work proves coholism of the parents is the major cause of idiocy and imbecility of the subject I have demonstrated that alspring. In my own papers on the idiocy and imbecility. It has been degenerate than the last ones-when the parents' cellular potentiality has holism, syphilis and various other reached a marked degree of reduction of inebriate parents are apt to be less worthy of note that the first children nealthy parent, if intoxicated with albeyond all doubt that a perfectly pathologic factors in the parents are proven by many clinicians that alco-Take, for instance, the genesis of

caused by the pathogenic agent-alcoof the impaired organic function tiality of the entire body of the alcoyond the fact that the cellular potenbut need not be considered here bein chronic alcoholism is quite complex the liver, the lungs, the ovaries, the testicles, the circulation, and conend, however, every tissue in the body of the other organs in general. In the successive pathological involvements individual indiosynorasies govern the ism, for instance, the brain cells are holic progenitors is changed by virtue parents pays the penalities of its prosequently, the entire body. Under is the sufferer—the brain, the kidneys. is reduced, and a child born of such these conditions cellular potentiality he first affected physiologically, and The mechanism of these workings In the case of chronic alcohol-

In acute cases similar conditions of reduced potentiality exist. Alcoholic intersection of the parents at the time of conception of the offspring disturbs the physiologic cellular status tausing a reduced cellular potentiality of the course system—including the ovule and the spermatozoid. Flence a conception resulting during such a state ends in the birth of an offspring with reduced cellular parentiality.—in above, at imbecelity, in epilepsy, etc.

Aladiona Charles . I the Ker

The following editorial recently appreared in the Nett Albamy Malical Leaders: When we encounter at autopsy a well-marked case of this discuss, we see a picture that is not to be interpreted in anything else. The organism is small, hard irregular in shape, and with a very rough surface. The latter characteristic is so typical that it has given the name of "hob-naffed liver" to the affection. When we try to cut the organ, we find it to be very rough and resistant. In fact, it is hardly a liver at all, but a masse of electrical tissue.

Occasionally one finds a case in which the liver is normal is size or only slightly contracted is of a yellowish color, and very tough to the knife, but not to the extreme extent as in the form above alfuded to. The cut surface shows dots and patches of yellow among the gray bands of connective tissue. The brownish clusters of liver cells in this, as in the other form, show only as points in the general mass. This is the fatty form of alcoholic cirrhosis.

When a section of either of these varities is examined under the micro-

scope, the picture is tutly as striking as that presented upon gross section. A normal liver shows almost nothing under the glass but a mass of liver cells, while the cirrhotic liver is seen to be made up principally of conective tissue with, here and there, merely a misshaper group of gland cells. One is led to wonder how any function can be carried on at all.

Besides the great diminution in the number of secreting cells, the walls of the portal vessels are seen to be so thickened as to be, in many cases, practically obliterated.

This condition will fully account for the symptoms as observed clinically. There is, in advanced cases, almost an entire suppression of the function of the organ; this will account for a large part of the general poor health produced by a faulty assimilation of the food substances and by faulty exerction of the many products which are normally gotten rid of in the bile.

The blocking of the portal vessels is what produces the venous statis in all the organs drained by these veins; namely, in the stomach, small intestine and nearly the whole of the large intestine. This produces at first a catarrhal condition of the mucous membrane with a hypersecretion of the viscid mucus, which interferes greatly with the already impaired digestion. Another effect of this damming of the portal system is that the blood must seek some other means of egress from the congested veins; in other words, a collateral circulation is attempted.

This may go in one or all of the following directions: From the cardiac end of the stomach through the veins at the lower end of the ocsophagus; through small vessels in the sus-

pensory ligament of the liver to the veins of the diaphragm; and also down the round ligament to the umblicus where they anastomose with the branches of the epigastric and mannary veins, forming the group of varices known as the "caput medusae." There is a system of small veins which connect those of the mesentery with the inferior vera eava; and, lastly, the middle hemorrhoidal wein which belongs to the portal system anastomoses freely with the inferior ten anastomoses.

goes to the interior went cava, sionly this blood passes down the bowel with that which comes from capes into the stomach directly. Occaa common cause of death. The blood amount of blood thus forced upon them, and they often dilate into from the lower ocsophageal veins is discharged into the stomach and is are frequent and severe, in fact, it is ed in this disease. In some cases these greatly enlarged to accommodate the in the stool as a tarry mass. varices in its own walls and appears the hemorrhages so frequently observof these weakened vessels gives rise to various organs. Occasional rupture varices on the muscous surface of the These collateral vessels have to be

Hemorrhoids, both internal and external, are very often associated with cirrhosis, and a patient in whom these are large and persistent should always have his liver examined carefully.

When the collateral circulation is well established, as so long as it continues in good order, the patient may have few symptoms; and in spite of the fact that his liver is doing very little work, may be able to live very comfortably indeed.

This is the condition for which we

sible, so that even with a liver that is neys are the principal indication heart's action and for that of the kidof any case of cirrhosis of the liver. must always strive in our treatment as to try to get rid of a keloid by of which will dissolve the connective life. There is no agent that we know Joy several years of reasonable active practically useless, the patient may enbe established in the smallest time posand allow the collateral circulation to ently, is will sustain the vital functions know. Given regularly and persist-Of these anasarcin is the best one we Tonics for the plaintenance of the

general medication. anasarcin will often suffice as a treat-This is a bad symptom, and, unless the accumulation is gotten rid of and the circulation established, the patient tion has been established, or when it of the legs. The quantity varies great-ly; often it is inconsiderable, while at sometimes accompanied by a dropsy fails for any reason, there appears an usually before the collateral circulain any quantity; when anasarcin used, this is rarely necessary. is better to begin tapping early and repeat it whenever the fluid reappears ping may be resorted to, but it must be done judiciously and with precaumove the fluid, the operation of tapis of great benefit. If it does not reactive purgatation during the first days ment. When the patient can stand it will die. Even in these bad cases imes it may amount to many gallons the abdominal cavity: although it is ascites; as a rule, this is confined to tions to secure thorough asepsis. At some time or another in the case,

The diet in all cases should be plain and nourishing, but not in too great quantity, and not so rich as to tax the

digestive powers. Milk and buttermilk are the best articles; others may be added according to the strength of the patient. Alcohol must be absolutely interdicted.

Beverages Called Satellites of Alcohol

exceptionally by diarrhoea. enteralgia and constipation and more ach, eructation, morning vomiting, appetite, dry tongue, distented stomleads to chronic caffeism, attended by insoninia, gastric disorders, loss of pitation, polyuria and frequently of hyperasthesia, muscular agitation, palquantities coffee causes seneral irri with the effects of alcohol and tobacco, easily recognizable in females, since to the hospitals with disorders solely caffeism, but the repeated habitual uses micturition. than in men. in them it is less often associated attributed to this cause. It is more women, laundresses, seamstresses, porexcess being especially frequent among the infusion in 24 hours. This for people to drink a litre or more of Pyrosis, intestinal flatulence, gastrotability and nervous excitement trsses and cooks, who come in crowds France, where it is not quite common ot coffee has increased rapidly in British Medical Journal, "the abuse "According to Dr. Fernet" says the This he calls acute Even in moderate

The Dyspepsia terminates by complete atony of the stomach and intestines with grave disorder of nutrition. Even gastric ulcer may ensue, but the single case quoted followed the usual habit of chewing coffee berries, and may have been merely a co-incidence in addition to the nervous system altreaty detailed, there may be tremor of the tongue, lips, or entire face, extend-

suffer from arrest of development. coffee drinkers are ill formed, ill nourarterio-sclerosis, and interstitial nephgenerally abundant and pale, and and profused sweats. The urine is ened, but in chronic intoxication, the contraction becomes slow and feeble, ished, abnormally excitable, and often in its track, while the children or state of the circulation being accomand the pulse compressable, this feeble drink. It produces temporary excitesensibility and anesthesia may occur there is nocturnal pollakiuria due to panied by liability to sudden flushing ment, followed by depression of mentinstead of coffee being an intellectual coffee: while neuralgic diminution of alleges are largely due to the use of coholic tremor, cramps in the legs asthenia with all its evil consequences. barrassed and are menaced by neuruse become emotional, timid, emal power, so that those addicted to its one was constantly tickling his neck. Gilles de la Tourette imagined somesia with formication. A patient of particularly at night, and hyperaestheing later to the limbs analogous to al-The heart's action is at first, strength-Pruritus and prungmous affections, he Impotence and sterility follows

Brillat-savaris is quoted as saying that all fathers and mothers should strictly forbid coffee to their children, if they do not wish to have them dried up, stunted, little machines, old men and women at 20.

Finally in the catter cachevia the face is rate or of a gravish earthly that the street is rate of a gravish earthly that the street is rate or of a gravish earthly that the street is rate or of a gravish earthly that the street is rate or of a gravish earthly that the street is rate or of a gravish earthly that the street is rate or of a gravish earthly that the street is rate or of a gravish earthly that the street is rate or of a gravish earthly that the street is the street of the street is the street of the street is the street of the str

Finally in the cattere cachexia the face is pale or of a grayish earthly tint wrinkled and unduly aged, while the eyes alone remain brilliant, and the body reduced to a skeleton.

Voltaire was the type of a caffeomaniac, in this condition any disease and especially infectious diseases, finds an easy prey. The quantity of

> a girl described above who chewed least half a pound of tea daily, it seems somewhat strained to include was in the habit of chewing tea, like as in a case quoted by Slater, whose casionally simulate deliruim tremens, and frequent inicturition. It may ocstronger dose rarely fails to produce action. A single cup of tea may cause excitement and insomnia, while a ous symptoms is not certain, but three coffee berries. But as she consumed at hypereraesthesia, palpitation sweats, tial oil which has a specially poisonous alkaloid it contains, but to the essennot more so. Three or four cups daily ed by all physicians, is according to Yes that excellent China drink approvenough to cause chronic intoxication our four small cups, daily may be coffee sufficient to produce these seri-American physicians: known in China, and to English and "theism" characterized by excitement are by no means free from danger. Dr. Fernet, as harmful as coffee, it Chronic theism is said to be wel this among the effects of tea drinking The ill effects are due not only to the

It is observed among tea tasters, and is manifested by loss of appetite, dyspepsia, flatulence, gastric distension gastralgia and obstinate constitution and may be accompanied by muco-membranous enteritis with general disorder of nutrition. The influence of tea on the heart is more marked than that of coffee, as in a certain nervous subject, a single cup may cause painful cardiac excitements

He refers to the cases reported by Stokes, which were due to the abuse of green tea. Of these, the first recorded by Dr. Percival had a feeble irregular and intermittent pulse with

attacks of asphysia recovering every five or six minutes: The second furnished by Dr. Harvey, had a pulse which was scarcely discernible, and extremely irregular. The patient had drank a great deal of green tea during the whole of the preceding night, as he had set up with an uncle who was to be off-in the morning early, by stage coach.

cachexia in which the face becomes ing, and finally like other intoxications of the same order, theism leads to a the patient talkative and noisy: tremor of the limbs cramps and neuralgia sensorial, susceptability. The temper with irritation of the skin and excesses symptoms are tremor, hyperasthesia cups of tea while paying calls in the afternoon. She suffered from violent of a lady who often took four or five are quoted from the writings of Potain, and Huchard. Among the and oppression, with a painful sense consequence, he became subject to paroxysms of quick and rapid action of the heart, which was neither irreg-Stokes himself: the patient was in the habit of drinking strong tea in anaesthesia, loss of vision and hearby nervous exhaustion with incapacity appear without apparent local cause often becomes irritable and violent, given up. Among other nervous these symptoms ceased when tea was palpitation with radiating pain at the cases recorded by the latter, is that of impending death. Other examples were accompanied by intense distress order to enable him to continue his ular nor intermittent, but the attacks intellectual labors during the night; in heart coming on by day and by night: or work, muscular weakness, defused Later on these troubles are replaced The third case was observed by

NOTES AND COMMENTS

all the signs of premature decay. slow with a tax of palpitation; in fact the action of the heart feeble and

NOTES AND COMMENT

ment from an excellent physician to

We have received a labored argu-

rather a step backward. The subject the much vexed problem. We are sorry to say that the publication of hygienic, restrictive measure, has been good men, and its utter failure as a this paper in our Journal would be advanced study, and is a solution of and after reading it before several prepared his paper with great care of temperance. The doctor evidently established beyond question. of license has been studied quite exhaustively by a number of very societies, is convinced that it is a very prove the value of high license as a restrictive measure for the promotion

and paupers that followed extr police and court expenses, caused such as pauperism, insanity, idiocy, of the results from the sale of spirits paid out over \$21.00 to take care serts Labor Bureau, said that "for Many years ago commissioner Wright, the head of the Massachutaxes, and the number of degenerates high license, always increased the by the saloon. He concluded that license money from the saloon, she every dollar, the State received in

and this conclusion has been sustained by a great many studies. The followarray of facts beyond all theory and ing conclusions are supported by an This was nearly twenty years ago,

1. High license does not diminish

a certain respectability which the sale license increases drunkenness and gives the amount of spirits used. 2. High out the sale of liquor in low places. of liquor otherwise would not have. ities of the citizens. by increasing degeneration and debil-High license is constantly violated. tion. 5. High license does not drive High license increases political corrup- High license increases taxes: 4 High license is always followed

sician to alleviate the pain resulting under the direction of a reputable phy-City of Jamestown, that the aggravakota, holds, in the case of Pyke, vs. the injury in an action to recover damages for injury by the use of opiates, taken tion of the consequences of a personal from the injury is not a defensive fact The Supreme Court of North Da-

And this, the court suggests, would be true even if the physician erred in his any negligence of the person injured. act causing the injury, and not from treatment. arises in such case from the negligent The necessity for the use of opiates

It is a remarkable fact that the Dominion of Canada passed a law railroad total abstinent territories. Recently, the Governor General has ernment lands along the line of the some 20 years ago, making all gov-

> a belted track of land 40 miles wide, along the National Transcontinental tario and Quebec, is to be a prohibi-tion ground, and no saloons for the Railroad to be built in Manitoba, Onissued a proclamation, declaring that sale of spirits will be permitted in his territory.

in practical legislative science. the results will be a great revolution to be a permanent prohibition section section 20 miles on either side of the advances along lines of reform. If a will be one of the most remarkable tion laws. After the completion of the work, will be entirely under prohibi-This road now being constructed by the Dominion Government as a public railroad from Quebec to the Pacific is of the lands will carry with it this prohibition restriction, if it does, it road, it is a question whether the sale

their lives from alcoholic excess. directly due to spirits and beers." to alcohol. The other 79,500 from compelled to admit that at least 120, alcohol. As result, he said, "I an exaggerated temperance statements ustics for the purpose of showing the gan an inquiry into the mortality stamade of the mortality from the use of The late Dr. Kerr, of London, be

to the following questions which have ies in this country, and their answers It is interesting to note the con-clusions of the life insurance companbeen submitted to them.

It not, why not: surance risk, as the total abstainer? intoxicating beverages as good an in-As a rule, other things being equal do you consider the habitual user of

> ditions. They evidently do not consider moderate drinkers a dangerous to this question in the strongest and tions, and as a role, they are considered very bad risks. Two companies nine would not insure moderate drink amount of spirits used, and other con ers, except under very peculiar condimost emphatic language. believe that the danger depends on the Forty-one companies sent answers

ebriates to secure insurance in. ington Life, and are excellent conthe Manhattan Life and the Washvalue in moderate doses. They are believe in the virtues of alcohol and its panies for moderate drinkers and in-These two companies continue to

well known. Massachusetts, says, in the divorce case of Gowey vs. Gowey, where it tinued use of opium or morphine are opium, morphine or other drugs. But overrules exceptions to a decree, that 'drunkenness' as applied to the use of it is not easy to define the word he evil effects resulting from the con-The Supreme Judicial Court of

to afford relief to the innocent party the word "drunkenness" as applied to the state thus resulting from their ex-cessive use which the legislature inmarriag) relation as deplorable as life, and produce other effects on the least, with the happiness of married drugs and from which it is intended tended, the court thinks, to describe by of in-oxicating liquors. And it was those resulting from the excessive use he use of opium, morphine and other They interfere as much, to say the

finding that the habit was gross and evidence must be such as to justify a In order to warrant a decree, the

confirmed, and existed when the libel was filed. But if a gross and contirmed habit is once to exist, the reasonable probability that it will continue to exist, furnishes some ground for an inference which the court may consider in dealing with a litigated matter. In this case there was evidence warranting a finding that the libelec (defendent) had become addicted to the excessive use of opium, and that the habit had become gross and contirmed. She took for many years a medicine called "Tincture of Sudorinic," which, there was evidence tending to show, she admitted contained opium.

the part of the husband, he having testified that though he knew that his cine contained opium, when he was a physician was called to attend her a long time, he did not know until and that her conduct was, at times excessive and continued use of optunithe appearance of one addicted to the evidence tending to show that she had who did not know what is was, bought wean her from it, and other evidence told that she must have it, but to in an attack of illness, that the medi wife had been taking the medicine for the excessive use of that drug. Nor such as might fairly be attributed to later in pints and quarts. There was quired to assist her in overcoming the do all that could be reasonably reshowed that he did, and offered to he said to have been a confivance on does the court think that there could it for her in half pints and pints, and At hirst the libellant (husband)

Children who inherit a high degree of cellular potentiality have a capacity for work, and sustained application that enables them to accomplish

a great deal. They are always students, and always succeed, not for any special genius, other than capacity, and constant ability to see the right relations of things, and adopt themselves to these conditions.

Neary, they have no yesterdays, it is all concentrated into to-day and to-all concentrated into to-day and to-all concentrated into to-day and to-all concentrated into to-day and yet who pass through the world, as average citizens, ancetting with average success, Such persons have an instinctive dread of work, new thought, initiative and any expenditure of brain force. Their whole life is made up of shirking, shrinking, wiggling efforts to get along in the casiest possible way, and with the least exertion and effort.

It is wrong to brand such persons as lazy and unwilling, when in reality all such persons are born incapable of sustained exertions, and continued attention, and concentrated work. They have feeble potentiality, and when suffering find spirits and narcotics grateful reliefs. Firm the first elfect of spirits they wake up, and show evidence of some mental activity, but this soon subsides, and the progress from this point is continuously downward. From mediocrity, they go down to imbedility, and the very lowest grades of degeneration.

One of our most distinguished friends and eminent alienists of St. Louis, Dr. C. H. Hughes, has this to say of moderate drinkers. "All such persons are the most intemperate, and degenerate of all forms of inebriety. No man can continuously narcotize the neurons, and sensory centers, no matter how slight the degree, without

permanently disabling and destroying his vital resources.

This and similar statements have been repeated by German authorities, and is sustained by clinical studies. The moderate drinker is literally a dement in paretic stages, constandy boasting of his superior strength to stop at will and deploring the weakness of others, who cannot drink as he does.

and leaving the moral studies and battles to others. The editor, Dr. Kelynack, is to have charge of a new mebriate hospital recognizes this. and cannot be well separated. Every keeping the disease side prominent case, is taxing their utmost energies theory that inebriety is a moral lapse in the early stages, and the great prob-Consumption and inebriety are twins we send our warmest congratulations I his Journal is doing pioneer work in lem of how to define the lines of disrope are still struggling with the Journal, devoted to Tuberculosis, and Many very eminent authorities in Euwe shall draw from in the future. ebriety for January has a rich and valuable collection of papers, which The British Medical Journal of In-

> could be used to rouse sympathy and cess of any effort, and the more bitter iriends. the condemnation the more readily axions that publicity either condemnaa case against this company and others ton or praise was essential to the sucportunity for capital free advertising making these combinations more that they have furnished material for who use coal-tar drugs. The result is went too far in their zeal to make out wholesale condemnation of Acetanilic t was one of Barnum's cardina prominent and opened a splendid oppreparations. The crices evidently very vigorous protest against the The Antikamnia Co., is making a

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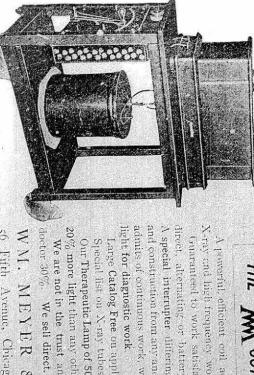
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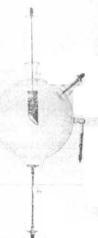
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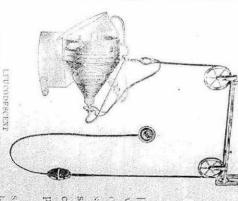
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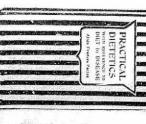
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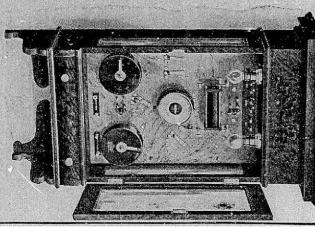
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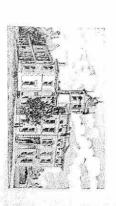
T. D. CROTHERS, M. D., Secretary, 194 Boylston Street, Boston.

In the Archiv Fur Pyschiatire and Nervenkrankheien, Doctor Recke has reported a number of cases in which special symptoms of mental disturbance with mild delirium and hallucinatory confusion followed of a peculiar type. These cases were all alcoholics and he makes them the subject of a special paper in which he attempts to draw lines or demarcation between what he calls alcoholic paranoia and chronic alcoholism. The examples studied are by no means clear, even the symptoms upon which he depends to make out a case might pass for several other conditions. The complex mental phases of delirium, and sensory confusions so common in persons who us alcohol steadily cannot clearly be separated from other symptoms, and made to point out any special condition. The following is one of his conclusions:

"Chronic alcoholic paranoia is to sharply differentiated from the translatory paranoia-like states of excitement which are occasionally manifested during frequent excesses in drink; and rapidly disappear after withdrawal of the alcohol; furthermore from the terminal states of weakness which remain after delirium tremens or acute hallucinatory confusion, and do not progress to any great degree of elaboration." Another symptom which he makes permanent is the delusional state of persecution, and tendency to complain. He concludes that the prognosis is not good, although the patient may live many years.

The first "Norman Kerr Memorial Lecture," was delivered in London, by Doctor Crothers, October 10th, in the hall of the Royal Medical and Chirurgical Society, before a large and distinguished audience.

Professor Campbell, the president of the British Society for the study of inebriety, presided, and welcomed the speaker. Sir Victor Horsley moved a vote of thanks, and enthusiastic remarks were made by several distinguished per-



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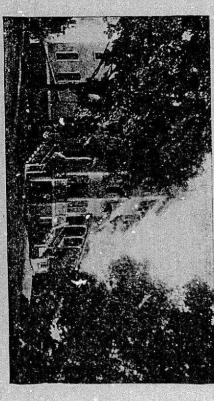
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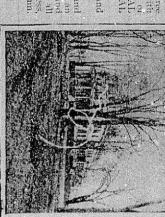
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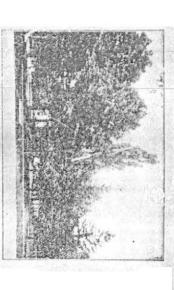
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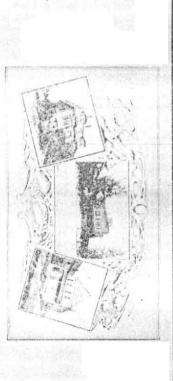
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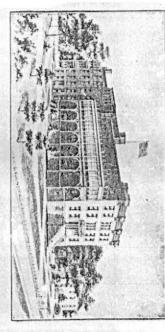


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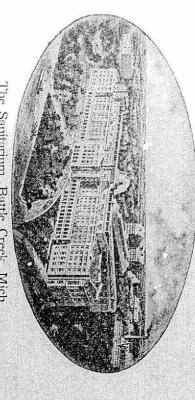
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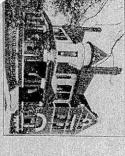
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